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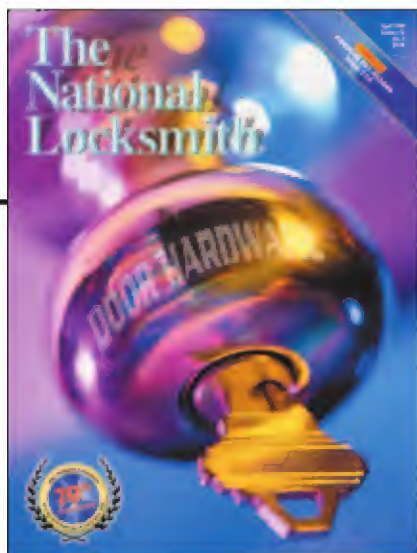
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PORSCHE FE1-FE2000
page 116

The National Locksmith®

DOOR HARDWARE



On The Cover...



The PDQ Revolution, Door Controls International Pannex Touchbar, Sargent & Greenleaf Arm-A-Dor and ABH Push/Pull handles offer unique door hardware products.

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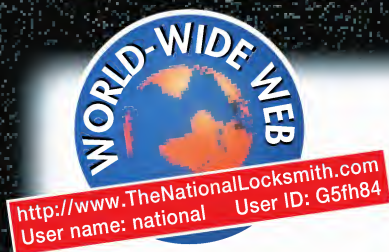
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COMMENTARY



Brrrring! Brrrring! It's Not Avon Calling

It never fails. You're either busy at work, or you've just managed to sit down to dinner at home, and the phone rings. On the line is a salesperson who just doesn't understand the word "no." Now most of us have learned to simply hang up the phone on these people when they're selling aluminum siding or vinyl replacement windows.

Normally, these companies are selling that sort of product, the type of thing that most anyone could buy. But once in a while a phone pitch comes along tailored specifically to the locksmith. And those calls are intriguing enough to make us actually listen to the pitch.

Be forewarned. What's sweeps around the country from time to time, is a marketing push by companies selling locksmith tools over the phone. These tools are not to be confused with those sold by reputable locksmith suppliers. I'm talking about the fast talkers calling you on the phone with lots of promises, and even more pressure.

To make a long story short, if someone solicits you for a phone sale, NEVER order the product unless you can pay with a credit card. If they demand a check in advance or a COD shipment, just forget it. That's because you have lots of protection when you use your credit card, and these scambo's know you can reverse the charges after they ship you their ripoff product. On the other hand, if you can order with a credit card, and if you are interested, it's pretty safe to give the product a try if you want. Personally, if they interrupt my dinner, they better be calling to tell me I won the lottery!

Spring is in the air...warm weather...people on the road...in their cars...losing their keys! As you know, more and more cars have gone transponder. That's why I have some good news for you this month.

The National Locksmith Guide to TRANSPONDERS by Mike Hyde has just been updated to include all, and I mean all, 1999

transponder information. For model year 1999 a vast number of cars were affected by changes, and right now is when you need all the information you can get your hands on.

If you already own the Transponder book, you can simply order the update, which contains over 300 pages of new data. If you don't have the book yet, you can order now, and you'll receive the new, revised edition. See page 135 for more details.

While we're on the topic of cars, let me tell you that if you want to learn even more ways to make profits easily as an automotive locksmith, you should join the *National Locksmith Automobile Association* (NLAA). As an NLAA member, you'll receive our monthly newsmagazine packed with photos and step-by-step details on how to service important newer cars.

We take the doors and locks apart, and show you how to service them and put them back together again. Membership costs \$125, and to sweeten the deal, we're offering a free 500 page auto locksmith manual with your membership. Called *The Automotive Edge*, the manual normally sells for \$149.95, and it shows you exactly how to service a huge range of critical vehicles. See page 145 for more information on the NLAA.

Marc Goldberg

Marc Goldberg
Publisher

Join our free E-mail list!

Receive locksmith info by E-Mail.
Write us at: NATLOCK@aol.com



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Mango's Message

In the past year I have received more requests from companies looking for experienced locksmiths than ever before. I don't know if it's the Fluoride in the water, pesticide on our fruits and vegetables, acid rain, depletion of the ozone layer, erosion of the world's rain forests or the Chernobyl uranium leakage causing the frenzy, but there is definitely something responsible for this epidemic.

Oh sure, I know some stuff-shirted economic professor from Harvard (who prefers to remain anonymous) that would attribute the alarming demand for locksmiths to the low inflation rate coupled with the over inflated stock market fueled by the accelerated growth of the economy, resulting in huge capital gains over the past few years. How trite of an explanation. It's not that simple my friend. Oh no. There is something much more sinister, insidious and despicable at the root of this, and I will dig to the bowels of the earth if necessary, to unveil the real explanation, (which I'm sure will be far beyond the comprehension of some tenured economic professor.)

Granted, maybe the economy is a tad better than in past years and maybe the pool of accessible funds is deeper than it has been in a while. Maybe interest rates are lower than they have been in 30 years and more homes were sold last year than in any single year in the past 20 years. Those arguments may hold a drop of water or two, but I still

contend that uranium laced clouds have drifted in the air currents from the Soviet Republic and instead of acid rain blanketing North America, it's "u-rain-ium." My team of scientists are exploring that theory as we speak and I'm confident the results will be conclusive, determining beyond a reasonable doubt that indeed u-rain-ium is in fact responsible for the locksmith demand hysteria, once and for all reputing the

Uncle Locksmith Wants You!

hypothesis presented by some no-name Harvard professor.

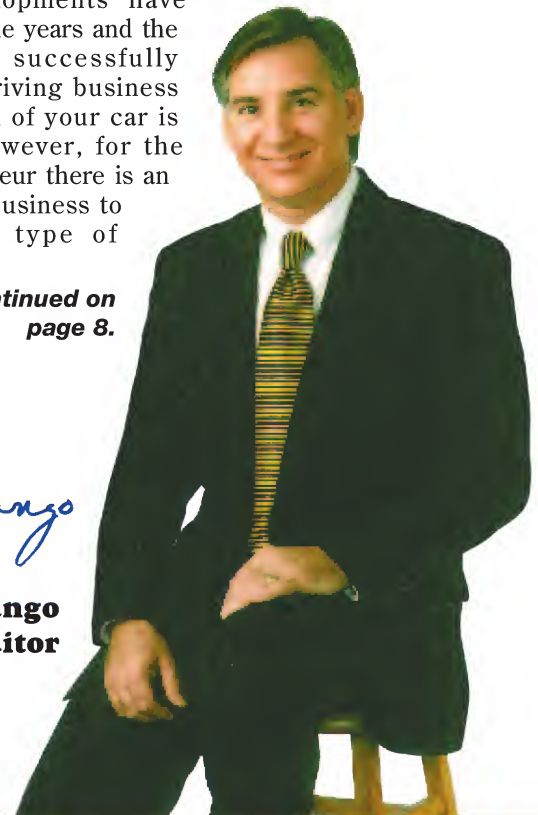
However, I can understand the shame he must feel and don't blame him for hiding behind the vale of secrecy. If I even entertained the thought of presenting a conjecture as preposterous as — low inflation rates, economic growth and high capital gains — I'd remain anonymous as well. Instead, I choose to present not only a sound theory based on indisputable documented fact extrapolated from the National Society of Meteorology, but go so far as put my face and name on the presented testament. What do you think of that Mr. Harvard Professor? (I bet he can't even tie his shoelaces without an instruction sheet!)

All kidding aside, although many within the industry will proclaim that the locksmith profession is dying a slow but sure death, now is as good a time as ever to be a locksmith. Yes, the industry and product developments have changed over the years and the likelihood of successfully operating a thriving business from the trunk of your car is negligible. However, for the savvy entrepreneur there is an abundance of business to be had. The type of

*Continued on
page 8.*

Greg Mango

**Greg Mango
Editor**





Continued from page 6

services required might have shifted a bit in recent years requiring those who wish to succeed to alter their pre-determined path a bit, but those who overcome the obstacles thrown their way are sure to reap the rewards. It's those businesses that have met the challenges of today which are thriving, and are in desperate need of help.

Having a successful business, however, can be a double-edged sword. The overwhelming demand for services is the goal for which every business owner strives, but what happens when customer demands outweigh the ability to fulfill the requests? The demand will eventually diminish as those potential customers search for other avenues to fulfill their needs. Many businesses are finding themselves in just such a position.

Now you may think that's an easy problem to solve by just hiring more help, but first you have to find the help, which is where the problem lies.

I see two factors which contribute to the limited market of qualified locksmiths or even those individuals interested in locksmithing.

For starters, many locksmiths who have been in the trade any length of time and are worth their salt are in business for themselves. This is due in part to the fact that far too often the salary offered by employers is less than adequate for a skilled technician when compared to other tradesman, and they don't have to work 24-hours a day. Benefit packages are usually minimal if not nonexistent. One can expect little more than minimal insurance and a paid vacation, let alone a profit sharing plan, 401K, retirement plan, dental insurance or the like. Couple all this with the fact that locksmiths by nature are fiercely independent and you have a concoction that is sure to eventually explode, and often does.

Having said that, let me flip the coin and say that not all companies offer embarrassing salaries with no benefit packages. And what lures many skilled locksmiths into the fold of independent contractor status is often deceiving. Money, Money, Money! Many believe they will be much better off financially working for themselves when they see how much money is collected as compared to how much they make. Unfortunately it's all an illusion, because the demands and expense of operating a business are tremendous and often unseen. That lesson is often learned too late.



O.K. you say, how about hiring an apprentice to learn the trade? That too is a stumbling block. Young upstarts entering college or the workplace are not attracted or even exposed to this trade. In the age of electronics the fields of choice are computer science, network engineering, software programming, hardware design, computer graphics, desktop publishing, electrical engineering and microelectronics to name a few. Want to make \$60-\$70,000 a year to start, plus a sign up bonus (what locksmith ever heard of that), pick one of the above.

Locksmithing? Most of these young whippersnappers never even heard of it, let alone are going to be interested in it.

Then there is the problem with in-house training. Many businesses in need of help are so busy they find it hard to set time aside for proper training, thus the reason why most want experienced technicians.

Then there is every business owner's fear of investing time and money teaching someone the trade only to have them ultimately leave, go into business for themselves and then bite the hand that fed them by soliciting his customers with cut rate prices. This always creates ill feelings between the two parties and leaves a bad taste in the mouth of the business owner with regards to future apprentice training.

Aside from all the obstacles, if you're looking for work in this trade, it's there and the more experienced you are the greater the demand. I recently received a call from a good friend in Washington state who said his company was looking for career minded individuals in every department of the company; outside technicians, inside technicians, counter sales and service, safe technicians, electronics, sales, office help, you name it. They have tried several avenues and can't find help. I have a few close friends right here in Illinois who have been looking for help for a year with little success.

Is the need, availability of experienced or apprentice locksmiths an insurmountable task? No. The work is there and the demand is there. Both parties just need to make a commitment. That's a word that is seldom heard or lived up to these days, but an essential ingredient for any long-term relationship that can be rewarding for all those involved.

Ignore the skeptics who say the locksmith trade is dying, because for everyone who says it is, I can put you in touch with one who will refute that fact and then probably offer you a job. This is a great trade to be in. **TNL**

Letters

The National Locksmith is interested in your view. We do reserve the right to edit for clarity and length.

Thanks for the Prize

I want to thank Jake Jakubowski and *The National Locksmith* for selecting my tip on "Pin Sticks" that was the 19th place winner for the year-end drawing.

I must tell you that your selection for the grand prize, at first glance, puzzled me. Not remembering the tip, I looked it up in the issue it appeared. That was truly an act of compassion and class that you rarely see anymore.

Keep up the good work.

Dennis Harmon
Colorado

Excellent Issue

The December, 1998 issue of *The National Locksmith* was well done and rates 5 stars. The reference section is excellent to say the least. I especially liked the index of articles. I also look forward to the price guide. I have had customers politely ask me how I arrive at my fees and I tell them that I have a rate guide from *The National*

Locksmith and a flat rate manual. I do not pick my fees out of the air. I have every issue of *The National Locksmith* since I became a subscriber over 10 years ago. They are an excellent reference library.

As I stated at the beginning, each issue of *The National Locksmith* deserves a 5 star rating. Keep up the good work.

Tom Seager
Michigan

Out With the Old, In With the New

I have been locksmithing for more than 30 years now. I have a particular computer code program and whenever I would call the company with a problem, either existing or new, I would get cussed out and told what a stupid so-and-so I was. The person I talked with then had the audacity to charge my credit card ten dollars for a two-minute assistance call.

The next time I called for some assistance this same person hung up on me and charged my credit card another ten dollars. Every time I called I always spoke with the same person. I have had this code program since the beginning, about 16 years now, but canceled it after my last call when he hung up on me and charged ten dollars to my VISA card.

I marked this person and his product off as a loss and bought the complete InstaCode program from *The National Locksmith*. The people associated with the InstaCode program are the most helpful people I have run into since starting in this business.

If you are buying codes on disk or computer codes for the first time or



have the same program I had (whose name will remain anonymous because I won't even acknowledge it) I suggest that you try InstaCode. It is the best program I have seen in years, with no hidden charges. The people involved are gentleman and someone you can communicate with. These folks will assist you with whatever problems you have. Do yourself a favor and buy InstaCode. You will be much happier.

Ben Farriss
Virginia

Pontiac Roadside

I call several roadside services a month to obtain vehicle key codes. Last night I received a call from a nurse at a local nursing home who had locked her keys in the trunk of her 1990 Pontiac Sunbird. She told me that the Pontiac dealer had already sent someone out from their shop, but they were unable to remove the rear seat. He had tried to obtain a key by the VIN number, but there was not a code for it. I told the customer that I would come out and look at it since she was only a mile

The National Locksmith
1533 Burgundy Parkway
Streamwood, IL 60107
Attn: Editor

away and because I do all of the lock work in the nursing home.

The car did not have a locking glove box. It did have seat belt harnesses in the door and my arms are too big to pull door locks on this vehicle. I would never pull a rear set out unless it is an absolute last resort, so I tried rocker picks in the lock, but no luck. Then I tried to impression the lock. These types of locks leave very, very faint marks on the key and my luck with impressioning is not great. Since I had no luck with impressioning, I then decided to go with try-out keys (all 400 plus of them). No luck with those either.

I decided to call Pontiac Roadside. I know the dealer already tried this, but what the heck, it's worth a shot. After I wrote down the VIN number, I noticed (after looking at the notes left behind) that the dealer misread an "L" for a "1". I called Pontiac to tell them the situation and that my next resort was to drill the locks, which I really did not want to do. The Pontiac dealer, named Terrance, looked it up in the computer and to both of our surprise the code was not there.

Then Terrance told me something that no other GM operator has ever told me. He said if I would like to hold, he would go down the hall and look it up on the microfiche! I was beside myself. I said absolutely I would hold.

Five minutes later he came back and said he had found it and would call me back on the shop line and release it to me. Before you knew it I was given the bittings, had a key made and was soon on my way.

If you ever encounter such a situation where a code is not available for an older GM vehicle, politely ask the GM operator if they would please look it up on the microfiche. They can, and have done it before. I only wish I had asked Terrance how far back the microfiche codes go. I don't have the answer to that question.

Maybe this is one more option that could help you. *Jon Milsap
Texas*

Ya Gotta Laugh

When my husband and I arrived at an automobile dealership to pick up our car, we were told that the keys had been accidentally locked in

it. We went to the service department and found a mechanic working feverishly to unlock the driver's side door.

As I watched from the passenger's side, I instinctively tried the door handle and discovered it was open. "Hey," I announced to the technician, "It's open!"

"I know," answered the young man. "I already got that side!"
*R. Wechter
E-mail*

Roadside Toll Free Numbers

The longest it has taken me to get GM codes is 14 minutes. When the weather is inclement, I will usually ask the vehicle owner to call in the information before I get there. By the time I get to the lockout I have the code number, cut the keys, collect my fee and leave. The customer has an accurate set of keys and I am smiling.

For code information you might want to try these numbers. With reference to GMC products, if you have the wrong number and you reach any of the GM roadside service personnel, just ask them for the correct number.

Buick	800-252-1112
Cadillac.....	800-882-1112
Chevrolet.....	800-243-8872

If its an older Chevrolet ask the operator to check the microfiche files.

Chevy Truck	800-962-2868 (For non pickups)
Chrysler.....	800-521-2779
Corvette.....	800-222-1020
Dodge	800-521-2779
Eagle	800-521-2779
Ford.....	800-392-3673 (It's a start anyway)
Geo	800-243—8872
Jeep.....	800-521-2779
Lincoln.....	800-521-4140 or 800-392-3673
Oldsmobile.....	800-442-6537
Plymouth.....	800-521-2779
Pontiac	800-762-3743
Saturn	800-563-6000
Subaru	800-782-2783 (Weekdays Only)

*Will England, CPL
Alaska*

Good for the Spirit

It seems there are different situations to fit each individual locksmith. Some are more civic minded than others are. Some of us drive 20 miles to open a car for \$25 and then sympathize with the customer because they are living in low-income housing and do not have much going for them. There is no way I could, even after 20 years of struggling to survive, charge a customer \$50 or \$100 to open their vehicle. That is plain greed in my opinion.

I have been an administrator for a Moose Lodge for 10 years and have seen how much it is to help the children and the elderly. I donate countless hours helping people. I open cars for nothing because there is a child locked in it, or a young girl has a clunker and a handful of kids. I open the car, smile and say have a better day and move on. I feel good about myself.

I changed a set of mortise locks on a customers store front for \$30-\$35, get repeat calls and everyone is happy. Am I rich? No, and never plan on it. I love what I do, stay poor with the rest and wait for the next call.

*Al Root
Pennsylvania*

Poetry Anyone?

After too many years of picking locks, opening safes and cars, I sold my shop and decided to start writing poetry. It occurred to me that putting some of my experiences into poetry might be something others would like to try. I know it was fun for me. Here's a sample:

"It's The Tension"

When picking a lock
I should mention

That it takes only
the lightest tension

To lift the pin and pressure spring

To make the cylinder do its thing

The keyway is also
a determinate feature

And it can be
an obstinate creature

Take your time
and do it right

Just remember,
keep the tension light.

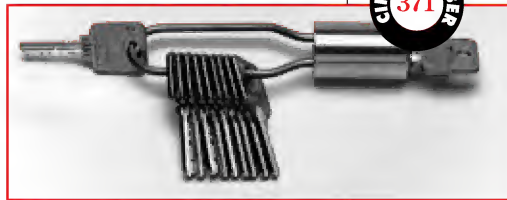
*Sean McKelvy
E-mail*

TNL

Security Café

**DROP IN FOR
TOOLS, TECHNOLOGY
& EQUIPMENT**

Monarch's Key Kop™



CIRCLE NUMBER
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Monarch's Key Kop™ is proving to be a hot item with many security professionals. The solid body and wide choice of locks, with the heavy stainless steel shackle, make for an excellent key control system. No welding or soldering heavy rings each time keys need to be replaced or rearranged. Authorized personnel can open a Key Kop™, take care of changing keys, and quickly return the ring to service. Monarch's Key Kop™ is also available in cable style.

Dependable Security Ford Manual



CIRCLE NUMBER
372

Dependable Security Inc. is proud to introduce the first of their new training series for locksmiths. The "Ford 8-Cut Progression Manual" is a guide that eliminates unnecessary steps by replacing the standard progression chart with a chart that requires a maximum of five possible combinations. The second book in our training series, "Ford 10-Cut Progression Manual" is the only complete progression guide for Ford 10-cut lock systems on the market today.

Lund Key Control Catalog

Lund Key Cabinets featuring visible key control is

described in the new 16-page catalog. New products shown are a key cabinet with a locking inner compartment and a locking exterior door, a



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dual lock key cabinet for extra security, and a locking storage cabinet. Prison key cabinets of all sizes are also included.

Lund makes over 70 different styles of key cabinets and panels all complete with systems for controlling keys. Capacities range from 10 hooks to 3,312 hooks. The system can be one tag or two tag.

Inverters from Tripp Lite

Tripp Lite's Ultra-Compact PowerVerter DC-to-AC Inverters provide hours of safe, convenient power for all of your mobile office equipment. Simply plug the



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TekTone Room Status System

Just released from TekTone, their new RS800 Room Status System; a light signaling system designed for use in doctor's offices and other specialty areas requiring visual indication of the status of various rooms. The RS800 is a flexible, sophisticated, yet simple micro-controller based system with



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capabilities for multiple masters, master expansion, reception area indication, procedure area annunciation and Emergency and Code priority call annunciations.

PowerVerter's cigarette-lighter plug into your vehicle's 12 volt outlet and instantly generate 120v household power. The 140-watt model has one AC outlet and a 20-amp fuse. The 300-watt model has two AC outlets and a 30-amp fuse. PowerVerter's rugged metal, ultra-compact housing stores easily in any briefcase or glove compartment.

Vigilante Locking Hasps



CIRCLE NUMBER
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Turn service vehicles into armored cars with the Vigilante locking Hasps. Vigilante introduces the new and complete line of high

security padlock hasps for trucks, vans and many other uses. The hasps are designed for both the round style locks or standard high security padlocks. All are vandal resistant, easy to install, and will provide a perfect add-on sale for your locksmith shop.

AerComTec Deliver Fleet Management Application



AerComTec's AERTRAX system enables local fleet operators concerned with the whereabouts of mobile assets to receive accurate location information in less than two minutes. The information is accessible immediately by the client on any personal computer with Internet access anywhere in the world.

Fleet operators utilize the system by attaching a small AERTRAX field unit to a vehicle. The AERTRAX field

unit contains a 12-channel Global Positioning System (GPS) receiver and a Cellemetry Service transceiver. The field units are custom programmed to client specifications to report location information at specific times, on command, or a combination of both, using 12-volt power supplied by the vehicle's electrical system. Cellemetry Data Service transmits the location information over cellular networks to AerCom Tec's information resource center. The resource center processes the data and makes it available to the fleet operator via a password-protected web page.

Electronic Watchdog



americorp
INTERNATIONAL, INC.®

He's one mean money-making machine. That's what Americorp says of Rex®, the super electronic watchdog that sees through walls, never sleeps and sounds like an angry German Shepherd to an

intruder. With broad appeal to seniors, women and others, Rex is one of Americorp's best selling products with great profit potential.



Corby System 2 Starter Kits

Corby's System 2 has been packaged into starter kits with simple step-by-step installation instructions making selling access control easy. Each kit contains two outdoor readers of your choice including: Data Chip, Magnetic Strip, Wiegand or Proximity with 50 cards or data chips and 200 feet of wire. For installations requiring keypads, a kit is also available with two heavy-duty outdoor keypads, two custom back-boxes and 200 feet of wire. With the addition of a door lock and power supply for the lock, your installation is complete.



System 2 supports thousands of users, full duplex RS232, sixteen time schedules (1024 time zones), anti-passback, temporary users, two zone inputs, two auxiliary relays, two voltage outputs, generic 26-bit Wiegand capability, forced entry, door ajar, request-to-exit and an emergency drop input.

Dorma 9000 Series Exit Devices



The 9000 series heavy-duty panic and fire rated exit devices by D O R M A Architectural Hardware provide exceptional durability for high-use, institutional applications. A heavy-duty chassis provides superior strength, while smooth, reduced-projection design minimizes catch hazards, improving traffic flow. With standard freewheeling and optional clutch-style trim, the devices are highly vandal resistant. These exit devices are well suited for schools, universities, hospitals, detention centers or other commercial applications where frequent, reliable

operations are a requirement.

The series includes rim, mortise, concealed and surface vertical rod options. All devices within the series are ANSI Grade 1, UL-Listed and are available in panic and fire rated versions to meet applicable requirements.

ShatterGard Glass Film

ShatterGard Inc.'s unique, yet affordable, solution to glass breakage and smash is an optically clear virtually impenetrable film that applies to glass to prevent break-ins.

In the unlikely event a burglar breaks the glass, ShatterGard will hold the glass shards together thus preventing the intruder from entering the premises. In addition, ShatterGard can eliminate the need for unsightly window bars and



grates. Locksmiths are recommending ShatterGard to their clients to defend against commercial and residential break-ins.

Nationwide dealerships are available. **TNL**

Trimec offers ES600

The Trimec ES600 patented surface lock advances locking technology.



The ES600 is an electromechanical lock that installs as easily as a magnetic lock, but operates much like an electric strike. The surface lock offers 3,000 lbs. of holding force, and is field reversible from fail safe to fail secure. It can also operate freely under up to 1,200 lbs. of side load pressure. The ES600 can be mounted horizontally or vertically. An optional mortise version is available for sliding doors. It has been cycle tested to 2,000,000 cycles, can accept multiple input voltages (12 or 24vdc), and provides dual independent monitoring of the latch and lock.



WOW, A REVOLUTION is Coming!

by Tom Lynch

Established in 1983 as a source of commercial grade door locks, PDQ Industries filled a niche created by slow order turnaround times of other lock manufacturers. By shipping product in three working days, PDQ became known for its "Pretty Darn Quick" deliveries.

As the requirements of the market served by PDQ changed, so did the company's direction. With the enactment of the American with Disabilities Act and the

increased need for key-in lever locks for public facilities, the demand for heavy duty, high quality locks soared. To supply the quality required, PDQ began manufacturing its own commercial grade lever locks; first, the SP Grade 2 Spirit, then the ST Grade 1 Spirit, followed by the MR Series Grade 1 mortise lock. All products are made in the USA at the company's headquarters in Leola, Pennsylvania.

When I recently received a UPS package with the new PDQ Revolution MR Series mortise lock inside, I could not help expressing myself with anything short of a big WOW! Holly Schmolly! Fantastic! Like a breath of fresh air, a new product had arrived in our industry that made sense and had purpose. (See photograph 1.)

Too often we are pumped-up by manufacturers to accept a new and improved version of an existing product, only to discover that it is not so improved and you would rather stay with the old. In the rat race of research and development, companies strive to release anything new to maintain consumer attention and loyalty. Unfortunately, they often overlook a cardinal rule in design engineering; is it practical and does it have purpose? The new PDQ Revolution is practical and does have a purpose.

To begin with, the packaging of the product is very appealing with the American flag prominently displayed on the box, exemplifying PDQ's pride in the fact that their product is made in the USA. I realize it is only a box, however, presentation of the products you sell goes a long way with the end user's perception of quality. The provided instructions and templates are very clearly written as well as being color coded to set the various functions. No guess work here! (See illustration A.)

The Revolution MR Series mortise case is Grade 1, ADA compliant with a 2-year warranty. The Revolution is available in two different styles: The Revolution MR Stock Case #1 has no deadbolt (latch only). (See photograph 2.) The Revolution MR Stock Case #2 has both a latch and deadbolt. (See photograph 3.) Both stock cases offer a stainless steel latchbolt (reversible through backplate), deadbolt and stop



1. The new PDQ Revolution MR Series mortise lock.



2. The Revolution MR Stock Case #1 has no deadbolt (latch only).



3. The Revolution MR Stock Case #2 has both a latch and deadbolt.

4.



- (1) Change Function Through The Case.
- (2) Stainless Steel Deadbolt.
- (3) Patent Pending Linkage.
- (4) Stainless Steel Latchbolt Reversible Through Backplate.
- (5) Nonhanded Guardbolt.
- (6) Stainless Steel Stopworks Reverse To Change Handing.
- (7) Five Springs In The Assembly.
- (8) One Piece Retractor Hub.

works which is reversible to change handing. Only five springs operate their patent pending linkage, which features a non-handed guard bolt and one-piece retractor hub. (See [photograph 4.](#)) Each stock case also offers a variety of function capabilities. All functions are accessible without removing the case cover.

The Revolution MR series is truly revolutionary because of the fundamental changes they will create and the

Mortise Lock 116 – Entrance/Office F04

1. MR case 116 or stock case #1 required.
2. Using the diagram illustrated below, determine the correct handing for your application.

**** Please note that the diagram is color coded to aid you in steps #3 and #4.**

CASE DIAGRAM

3. Place the lock body in front of you with the latch facing away from you and the cylinder hole on your right. Use the case diagram with it's color coded parts to properly hand the unit.

COVER DIAGRAM

4. Place the lock body in front of you with the latch facing toward you and the cylinder hole on your right. Use the cover diagram with it's color coded parts to properly hand the unit.
5. Check for proper function of the unit. If the lock functions correctly proceed with the installation. Should the lock not function properly, repeat steps 2 – 5.

**** Cylinder retractor spring must be reversed prior to installation.**

10/97

A. The provided instructions and templates are very clearly written.

CHANGING HANDING OF LOCK

NOTE: ARMOR PLATE MUST BE REMOVED FROM CASE.

A. REMOVE FUNCTION SCREWS / PARTS. REINSTALL ON OPPOSITE SIDE AS SHOWN IN DIAGRAMS A & B.

A

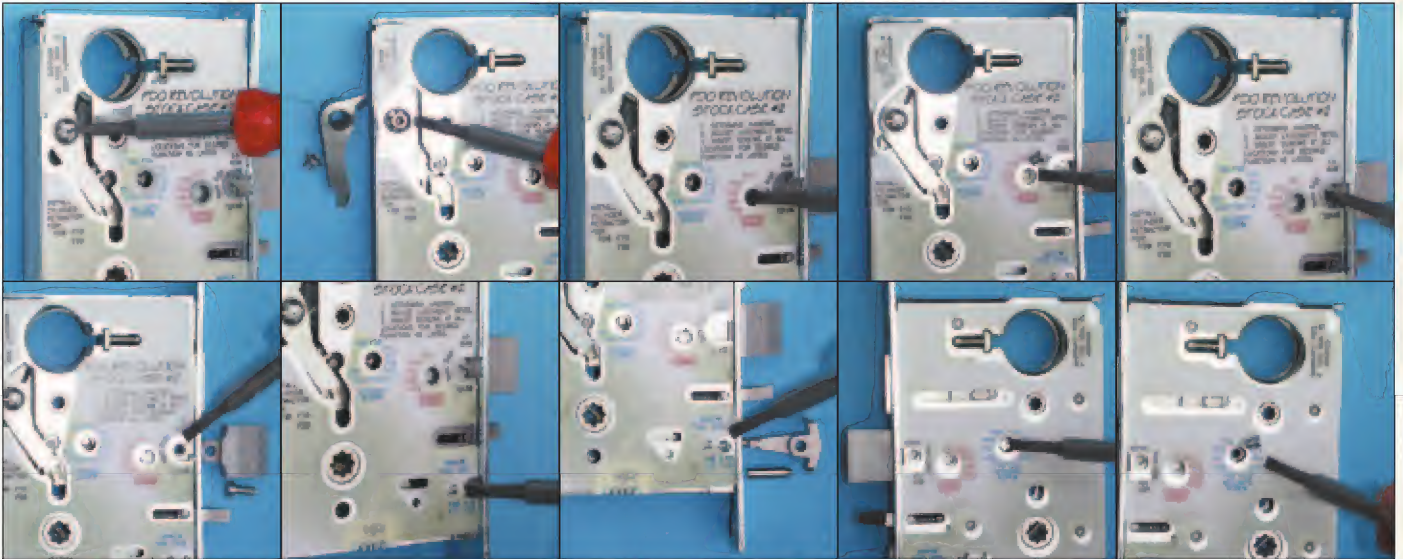
RH/LHR

B

LH/RHR

B. All you need to do to change functions is to reposition a screw or two without fear of misplaced parts.

profound benefits available to the industry and the individual. These two lock cases alone (Stock Case #1 & #2) offer you the option of providing 15 operational functions without removal of the case cover and manipulation of parts. All functions will operate with just one cylinder cam style. (See [photographs 5.](#))



5. Stock Case #1 & #2 offer you the option of providing 15 operational functions without removal of the case cover.

The Revolution Stock Case #1 can be set to the following functions:

- Passage/Closet (ANSI F01)
- Classroom (ANSI F05)
- Storeroom/Closet (ANSI F07)
- Entrance/Office (ANSI F04)
- Privacy/Bedroom/Bath (ANSI F22)

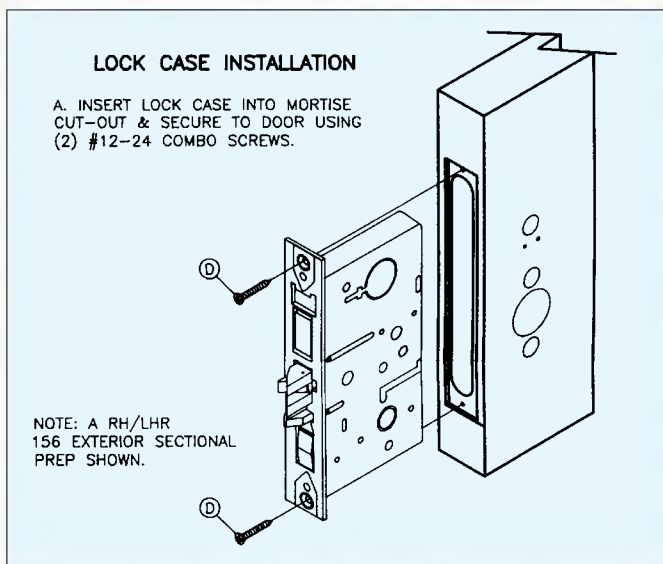
The Revolution Stock Case #2 can be set to the following functions:

- Front Door (ANSI F08)
- Entrance/Apartment Corridor (ANSI F10)
- Privacy/Bedroom (ANSI F02)
- Dormitory (ANSI F11)
- Dwelling Entrance/Dormitory (ANSI F12)
- Entrance/Store Room (ANSI F13)
- Store Door (ANSI F14)
- Privacy/Bedroom/Bath (ANSI F19)
- Apartment Corridor (ANSI F20)
- Entrance/Store Room (ANSI F21)

Each lock function can be set for either a right hand or left hand application as well.

How often have you traveled or sent a tech to the job site miles away only to find that you can not complete the call because you did not have the appropriate lock function? How about that added repair you could have done if you only had the right lock case? Let us not forget the customer who changes their mind after you arrived with the original requested function. In each scenario you lose money, time and sanity!

MR lock cases are shipped with all screws and parts in place. All you need to do to change functions is to reposition



C. The PDQ Revolution will install in any standard mortise mounting door prep.



6. The "Security Reset" trim lever will yield under excessive force and will drop.



7. To reset the lever, simply rotate the lever back 90 degrees to the original position.

a screw or two without fear of misplaced parts or an exploded lock case. (See illustration B.) The time involved in accomplishing a function change is very easy and fast; only five steps, and three are just to make sure you position the case correctly on your work area! By stocking these two mortise lock bodies you will automatically save time and free up valuable space in your stock areas.

The PDQ Revolution will install in any standard mortise mounting door prep. (See illustration C.)

The PDQ company has evolved into a true manufacturer of commercial grade hardware with technological innovations as those in the MR series mortise locks, but they did not stop there. Two choices of trim are available to provide a complete package. The "Security Reset" trim lever will yield under excessive force and will drop and swing loosely preventing damage. (See photograph 6.) To reset the lever, simply rotate the lever back 90 degrees to the original position. (See photograph 7.) This can be done in excess of 2,000 times. Another great feature of the "Security Reset" lever is that the latchbolt can be fully retracted with only 35 degrees of lever rotation, reducing wear and tear.

Innovative, flexible and ease of use best describes this quality product. Having the Revolution MR series lock in stock will give you peace of mind and a gamut of function possibilities resulting in greater profits for the business. Get a pair!

For more information on the Revolution MR series of mortise locks contact:

PDQ Industries
2754 Creek Hill Road
P.O. Box 50
Leola, PA 17540
Phone: 800-441-9692
Fax: (717) 656-6892
E-Mail: PDQ@PPTNET.com
Web: <http://www.pptnet.com/pdq>
Circle #280 on the Rapid Reply Card.

TNL



Guide to Motorcycles

For years locksmith have begged for a comprehensive service manual on motorcycles and its finally here!

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#MOT - 2

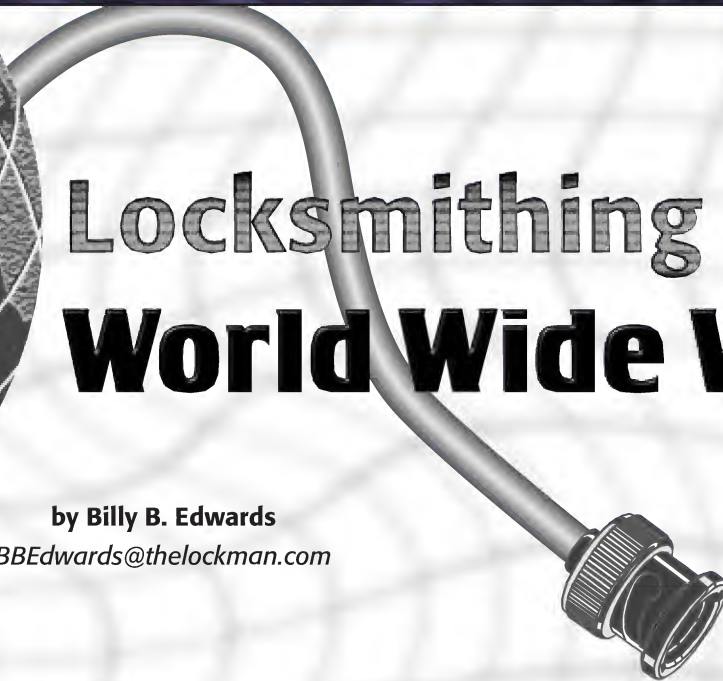


Locksmithing on the World Wide Web

Part 2

by Billy B. Edwards

BBEwards@thelockman.com



The Home Page

There are three basic type of home pages that you will encounter; the business page, the personal page and a page that seems to mix the two. Before we get to the design stage philosophies, we will examine how to get a home page and make it work.

A big part of getting a home page is having a place to put one. Your Internet Service Provider (ISP) usually allocates a certain amount of space on their server, which is available for you to place a home page. The most typical space allotment is 1 megabyte, and that should be more than enough for a good page. Contact your ISP to find out how much space and how to access the space they provide for a home page.

Some ISP's will want you to use the upload capabilities of your browser to put things on your site and others will prefer that you use a File Transfer Protocol (FTP) program. The upload procedure in your browser will be specific to the brand

of browser you are using and you should contact your ISP for help, or use the help menu in the browser.

There is a freeware program that I like to use to upload my files called: ws_ftp. (See illustration 1.) Ws_ftp can be used after you have connected to your ISP. When connected to the FTP site for your home page, it will give you a listing of files in a directory on your computer right next to a listing of the files on the ISP computer. To transfer the files from one computer to another, you just click on the file name and then on one of the center arrows indicating which direction it should be transferred. Right arrow equals from your computer to the ISP, left arrow equals from the ISP to your computer.

As you can see in illustration 1, there are three types of files (which can be determined by the file extension) involved in a typical web page. A file extension refers to the letters after the period in a file name. The three various files used is Graphics Interchange Format (GIF), Joint Photographic Experts Group (JPEG) and HyperText Markup Language (HTML).

The GIF and JPEG files are images or pictures, which can be incorporated into your page. The HTML file is the actual text and graphic outline of the page the browser will display. Images are available in many different formats, but the only types that can be displayed through HTML are the GIF and JPEG formats. If you have images in other formats that you would like to use, you must first convert them to a displayable format. If your present graphics software

won't make the conversion, try searching for graphics conversion software at the shareware site - www.shareware.com. Shareware means that you get to use it without paying for it, but if you decide to keep using it, you should send in the registration fee.

Sometimes you will see graphics on the web that move as you watch them. These are called animated graphics and must always be in the GIF format. They are made by producing a series of different images and then using special software to put all of those images, in sequence, into a single file. There is also shareware software available which can do this for you. The best package I have found is called "Animagic." It is very easy to use and the registration fee is under \$50.00.

The next aspect of creating your page can be done one of three ways; Write the HTML code yourself; have it custom written for you by a web designer or purchase a ready-made site.

Do it Yourself

For a page to be displayed the way you want it through a browser on the www, you have to write it using special symbols, words and punctuation that make the text conform to the rules of HTML. There are sites on the www where you can learn HTML if you are interested. There are also web page designing software packages available which don't require that you know any HTML language to design your home page. One of the best of those is a commercial package called "MS Front Page." It cost about \$150.00. There are also free shareware programs available.



1. There are three types of files involved in a typical web page, GIF, JPEG and HTML.

The designing programs are very easy to use. They are designed to work just like a word processor program and they have icons for inserting images and making links where you want them. The best programs give you a "What You See Is What You Get" (WYSIWYG) display on the screen while you design it. The only problem you will encounter is that the display area of the designing software isn't quite as small as the display area in a browser. This means that you might take great pains to lay out your page only to find that once it is up on the web it looks different from what you wanted. If you used the entire display area in the designer, the bottom part of the page may not show until the user scrolls down with their browser.

Avoid this problem by looking at your pages with your own browser off-line first. Some easy steps to follow in accomplishing this are:

1. Make a directory on your hard drive and put all of the image and HTML files for your page in it. I would suggest making a directory called "C:\homepage"

2. When you think you are close, start your browser program, but DO NOT connect to the Internet.

3. In the location field of the browser, type in the address of your HTML pages, i.e. "C:\homepage\index.htm"

4. The browser will display your page and all links to other pages on your hard drive. Take a good look and make sure that the spacing of images, colors, size and font used for text, and general layout are what you wanted.

5. Make a note for any changes you want to make.

You can repeat this process as many times as you would like to get the finished product you desire.

Now you are probably thinking this sounds expensive and like a lot of work. Well, you may be right about the expensive. It can be rather expensive, however, it can be surprisingly inexpensive as well. As for the work involved, it may be the type of thing you consider fun. It is very creative and the results can be dramatic.

Let's take a look at the expense involved in creating you own web page:

ISP - \$20.00 per month

ws_ftp - Free

Drawing or conversion software - \$50.00

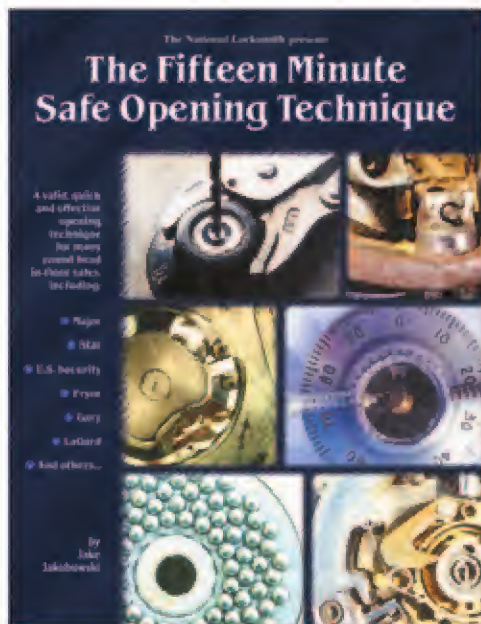
MS Front Page - \$150.00

So the basic tools may cost as little as \$200.00 and I don't count the ISP fee since you are already paying that anyway just to access the www. The time has to be invested initially, but that is a one-time thing, unless you want to make changes as time goes on.

Alternative Ways

Having a home page designed for you is the easiest way to get a home page on the web, it is also the most expensive. Many ISP's offer web page design as a service, which you can buy. You can also find a web page designer in your yellow pages, or you can search for one on the net.

Typically web designers offer some type of package deal which will give you three to six interactive pages with graphics and possibly links to other sites. Most recently I have heard that the current pricing is in the \$500.00 - \$800.00 range. The web designer will ask you what type of 'look' you seek and what information you would like contained in the pages. This means that you should probably surf the web



15 Minute Safe Opening

This book deals exclusively with round head lift out doors. Shows five ways to open a Major; three ways to find the Dog Pin on a Major; four ways to open a Star; four ways to open a LaGuard style round head.

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looking at different pages to decide on the 'look' you want. You will then need to supply the text for your pages. It will take a couple of tries to get all the changes you want before the pages are finished and the designer will typically take a week or two to produce the pages. This is a good option for those who don't have the time or inclination to do any of the work themselves.

The Ready-Made Site

So far I have found two suppliers of ready-made sites for the security industry. Both are reasonably priced and offer the Internet presence you may desire. The first is a site called www.Security-Pro.com. They offer a site hosting service and two different options for a home page. The home page offered uses a technique called 'frames' which divides the page into three different areas on the screen. The top provides links to Master Lock, Schlage Lock and the Link Exchange. A link is an area where you click your mouse or cursor over and it automatically connects, or links, you to the displayed web page. For example, if you click on the Schlage link, it will automatically connect you to the Schlage web page.

The left side area of the home page provides other links and the lower right is your own home page information.

The different options available are:

- Associate Membership

They will supply the frames with the top and left side links and host address the page on their server along with one e-mail address from which mail will be forwarded to your regular e-mail address. You provide the content for your home page in the lower right. (See illustration 2.)

The cost for this home page by www.Security-Pro.com is free.

- Membership

The membership option offers the same page setup as the Associate Membership does plus they will also design your home page with key words in the header, list the site with eight search engines, offer three forwarded e-mail addresses and host the page for one year.

Cost for this home page is \$50.00 down plus \$10.00 per month.

28 • The National Locksmith



2. You provide the content for your home page in the lower right.

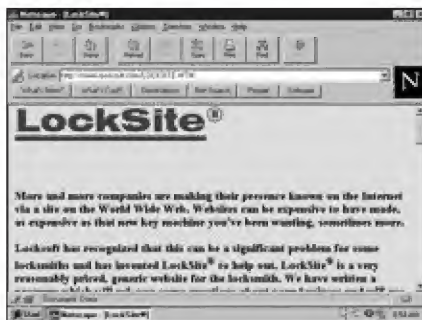
The other ready-made web site offering is from Locksoft Inc. and is called LockSite®. They have a demo version of it which can be accessed by clicking on the word LockSite® on their home page at www.locksoft.com.

The demo doesn't have a locksmith name in it, but it does display all the other information that would be included in the finished product. According to the information available, you will end up with up to sixteen interrelated pages and each will bear your company name.

There is one page where you enter the text and the LockSite program will write the HTML for it. It has different options for pages relating to Emergency Service, ALOA certification and alarms depending on your response in the design program. Once you use the design program to customize all of the pages with your name, upload all the files to your ISP using upper case letters and your page is on-line. (See illustration 3.)

Designed to allow modifications by the locksmith, Locksoft makes alternate pages and graphics available on their site for you to use.

The cost for the Locksoft home page creator is \$59.00.



3. Once you use the design program to customize all of the pages, upload all files to your ISP.

Both of these ready-made web sites have a business/selling philosophy, which brings us to the last part of getting your home page on the www. What kind of page do you want? We've all seen those Internet commercials on TV, you know the ones that end by saying you need to make the net work for you. Then again you may just want your Internet experience to be fun. In that case you might want a page with personal stuff only.

The question is, is there a benefit to having a business site? That's hard to answer right now because there aren't enough locksmiths on the web, and those who are don't seem to be tracking how many customers are responding to their web page. I did see a post a few weeks ago where a locksmith said he had a sale that he could credit to his web site. He said he had a customer call and refer to it just before he bought a few thousand dollars worth of padlocks. While I don't think we will all be that lucky, it's kind of like the lottery where if you don't buy the ticket there's no chance to win.

I like the idea of a purely business site because you can definitely change the public perception of you as a locksmith to one of a high tech organization. The web page is the cheapest form of advertising available with the exception of word of mouth. You might try offering a \$10.00 off coupon to your customers for mentioning the web site.

There is one other part of your philosophy you need to figure out. Remember how the address on the web is kind of like a telephone number? What you need to decide is if you want to be a single line, and area code or a country. If you use your existing ISP to locate your home page, your address will probably look something like this; www.myisp.com/~myname/index.htm. While there isn't anything wrong with that kind of address, it will make you harder to find on the web because there is more chance of making a typo. The other option is to make your name like the country, such as; www.myname.com.

The difference is being a user in a domain, or having your own domain. If you want to implement the user within a domain scenario, it is fairly simple and you can usually pick just about any catchy name you desire,

all you have to do is tell your ISP that you want to change your user name. This is a nice option because it lets you chose a name like security if no one else had chosen it. That would mean that your home page address would be www.myisp.com/~security. Kind of nice to put on your business card and easy to remember. This approach has the added advantage of letting you look like you are 'security' when it comes to your ISP.

If you decide that you want a high-level domain name, that is a little more complicated and slightly more expensive. First you have to check and see if the name has already been used. The Internet is worldwide and each high level name can only be used once. There is a place called INTERNIC which keeps track of every name that has been used. First you must go there and see if the name you picked is available. If it isn't, don't be discouraged, remember that the addresses on the Internet are case specific. Let's say you searched for "www.security.com" and it was used, the next option is to search for "www.Security.com" to see if it has been used. If it has, then try "www.SECURITY.com".

Once you find that a name is available there are two options:

1. You can register it yourself.
2. You can have your ISP register it for you if they offer that service. Option 2 is usually the better option. Most ISP's offer the registration service for a small fee of \$50 or less. The actual registration of the name with INTERNIC is \$35.00 per year and you must pay the fee for the first two years up front. The registration process takes about two or three weeks and basically consists of the paperwork getting done by INTERNIC and then getting your address added to the Internet 'phone book'.

I know all this sounds complicated to some of you, but it really isn't. Now is the perfect opportunity to get onto the web with a home page because a lot of the domain names a locksmith would want to use are still available. Just remember, once they are gone, they're gone. So go ahead and get working on it now. Next time we'll take a look at on-line forums. **TNL**

TNL Subscriptions



This is THE source for automotive technology, safe opening techniques, electronic security and much, much more.

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#SUB - 1,2,3,4,5,6

The 1997

Mitsubishi Eclipse

Part 2



by
Michael Hyde

Last month we covered the ignition and door locks. This month we conclude with the hatch and glove box lock.

Hatch Lock Servicing



1

All Mitsubishi Eclipse hard top models are Hatchbacks.



2

To service the rear hatch lock cylinder you must first unsnap the center plastic trim panel. The panel is made of thin plastic and uses very strong clips. I have serviced a couple of these models and on both I cracked the trim panel. Wholesale cost for this panel is around \$25.00. Be careful when removing the panel.



3

With the panel removed you will need to remove the two 10mm bolts that hold the latch mechanism in place.



4

The outside plastic name plate/tail light centerpiece must be removed to get to the lock cylinder. The trim plate is held in by eight 8mm nuts.



The trim plate being removed.

5



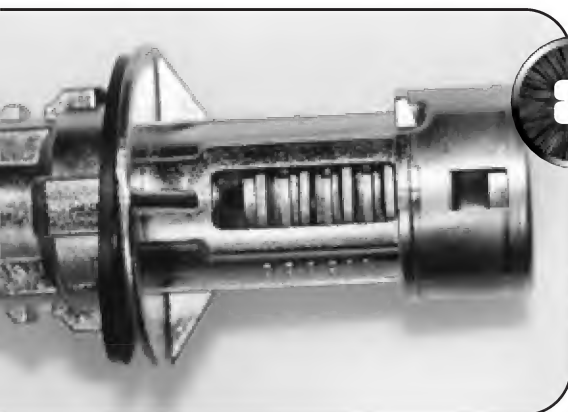
6

The rear hatch lock cylinder can be removed by taking off the horseshoe metal clip.



7

The lock cylinder is pictured.



8

The tumblers can be seen through the large drain hole area.



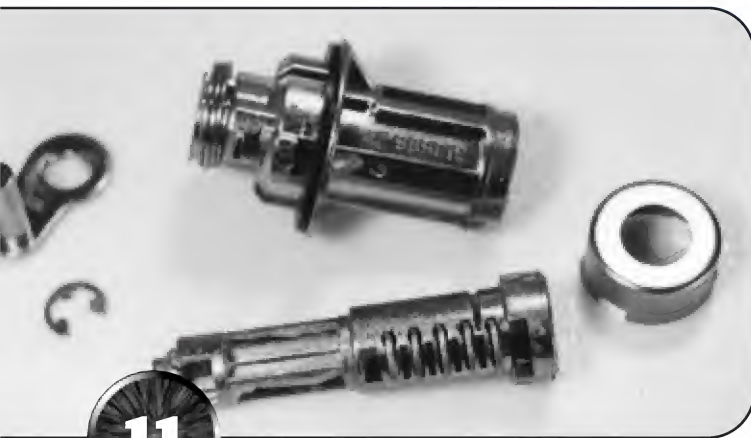
9

To disassemble the lock cylinder, remove the "C" clip that holds on the tailpiece.

10

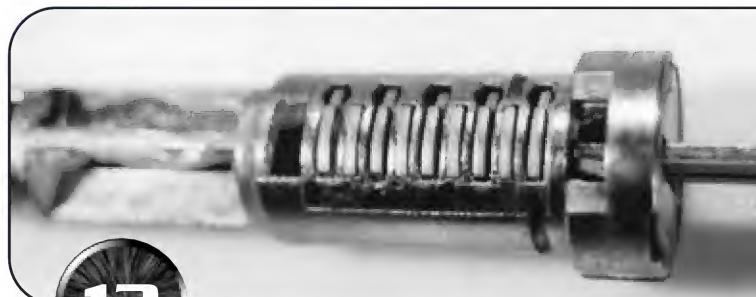
The face cap must also be removed. It is re-usable.





11

The rear hatch lock disassembled.



12

The cylinder plug contains all eight tumblers.

The Glove Box



13

The glove box lock is held to the compartment door by two phillips head screws.



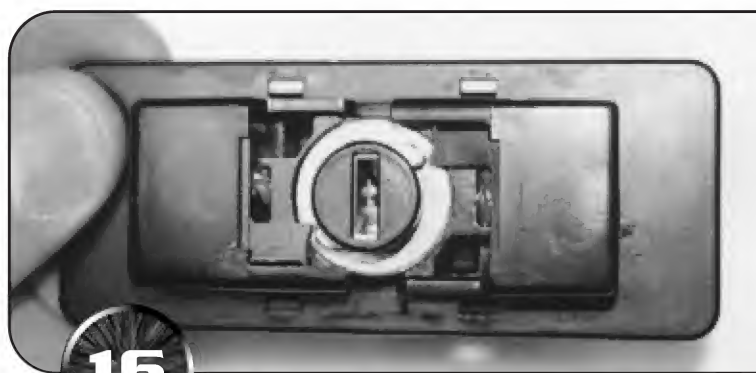
14

To disassemble the lock you must straighten the four brass tabs on the rear of the lock.



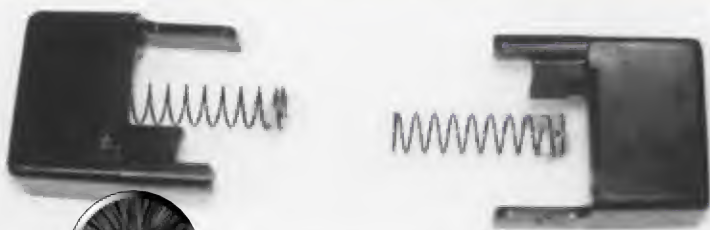
15

With the tabs straightened out, you can slide off the front cover.



16

Be careful of the spring-loaded push buttons that open the latch.



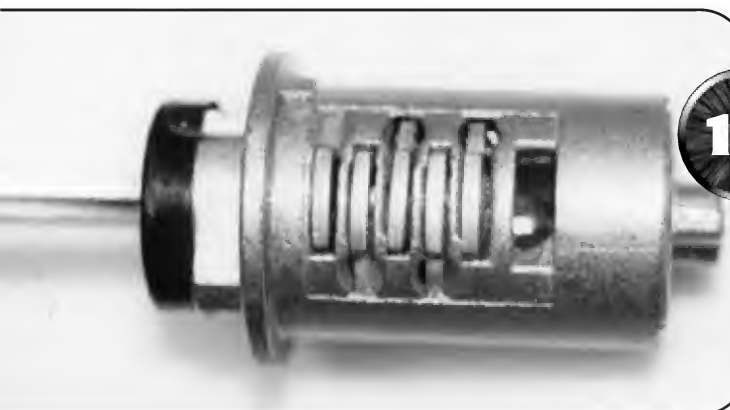
17

A view of the glove box lock push buttons and springs.



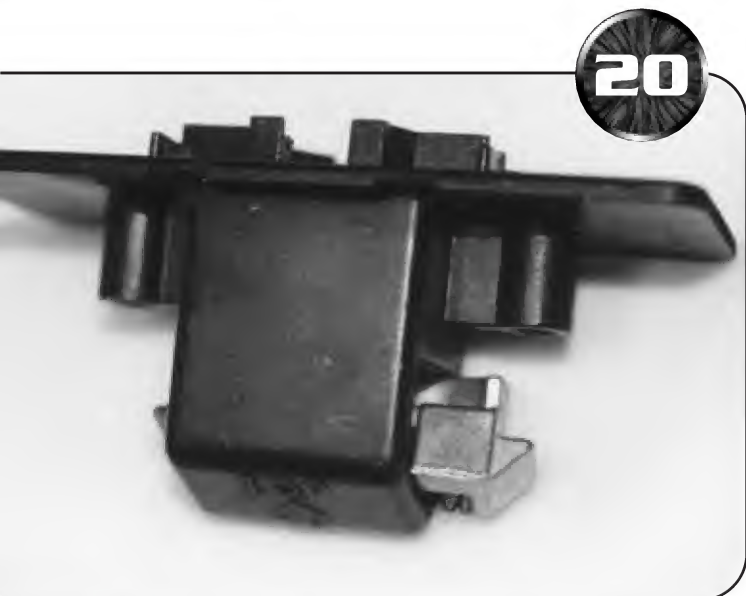
18

The lock cylinder plug is now ready to be removed. It is important to mark the plug and housing for easier re-assembly.



19

The cylinder plug contains four combination tumblers and a valet tumbler. Combination tumblers are in positions five through eight. The valet tumbler rides on the tip of the key. On a master blank there is a number two depth pre-cut for the valet. On a valet blank there is a number four depth pre-cut, to prevent the valet key from bringing the valet tumbler



20

Once the cylinder plug has been removed there is nothing to keep the two latch lugs in the housing. Be careful you do not let them fall out.

The Ultimate Technitips Collection



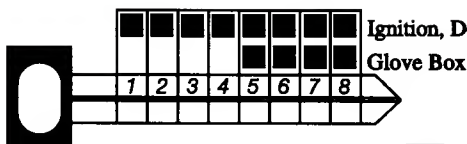
Here's one of the most useful books ever available to the locksmith!

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#TIPS - 2



A CODE SERIES: E5001-7679										
Bow		SPACING						Tip	DEPTHS	
1	2	3	4	5	6	7	8	Cut to Cut:		
.098	.181	.264	.346	.429	.512	.594	.677			.083
Key Blanks:		ILCO: X176/MIT1				SILCA: MIT8				
Reed Codes:		09-02-280				HPC 1200 CM		XF88, CX88		
Curtis Clipper:		Cam:		Carriage:		ITL MFG:		196		
		DC-50		TOY-50X						
Pak-A-Punch		PAK-G04				M.A.C.S.:		2		



TNL

LOCKSMITH SCHOOLS



Learning the locksmith trade can be one of the most rewarding accomplishments anyone can achieve. However, gaining that knowledge and experience can be one of the most difficult. Although there are more opportunities and programs offered today than in the past, aside from serving as an apprentice in a locksmith business, gaining proper education and experience can be an arduous task. Unless you enroll into a correspondence or resident school, limited avenues are available.



MBA USA, Inc.
Mike Bulleit, CJS
E. Claridon, OH

For years, residential and correspondence schools have been filling an educational void into gaining insight to the locksmith trade. There are more residential and correspondence schools offering locksmithing courses now than ever before. Each offers its own programs and levels of difficulty. We asked two past attendees of locksmith courses from Foley-Belsaw and MBA, one a correspondence course, the other a resident course about their experience. Here is what these former students had to say.



FOLEY-BELSAW INSTITUTE
Larry Ligier
Jacksonville, FL

Most definitely. I started working exclusively on safes a year ago. The education I received at MBA has given me the know how and confidence to take on any safe job. I am now doing four times the volume.

Yes, every class or seminar that I am available to take, I try to attend. It has been my experience that each class I took it broadened my business that much more.

I was doing automotive locksmithing for 7 years. Just last year I decided to specialize strictly to safe work.

Yes. Bulleit Safe & Lock, in E. Claridon, Ohio.

Any school you can attend you will learn something. Education is the key. I chose MBA because Mark Bates taught the class so well that as soon as I got back to work I was making more money. Choose one that will treat you like a friend. The more you learn, the more money you can make.

Has your education helped you get to where you are now?

Yes, it has played a very big part, not only from the business aspect, but the technical end as well.

Do you continue with your education?

Yes, in different areas.

How long have you been a locksmith?

I have been qualified for about 3 years. I work periodically here and there until I can get the shop going.

Do you own your own business?

I am progressing toward that goal. I have the building purchased and I am currently renovating to accommodate the business.

Do you have any advice for future locksmith students on choice of schools?

Foley-Belsaw all the way! It makes no difference where you are as long as you have a desire to succeed, access to a phone and a mailing address. Foley-Belsaw is there all the time.

MBA USA, Inc.

Mike Bulleit, CJS

E. Claridon, OH

Yes, and then some! I cannot say enough for the staff at MBA. They made sure that every student got personal attention. We learned a great deal and had a lot of fun doing it.

I was working in a body shop and called a locksmith to re-key some locks. He never showed up so I bought tumbler kits and learned to do them myself. All of a sudden dealers and other shops started calling me to do theirs. So I guess what attracted me was the money!

Again, the staff at MBA has helped me get a great safe business going. They have given me great confidence and have been a great friend. That is just the kind of people they are.

For more information on the education
Mike Bulleit received contact:

MBA USA, Inc.

101 Edgewood Plaza Drive
Nicholasville, KY 40356-1814

Phone: (606) 887-0496 or 888-MBA-5495

Fax: (606) 887-9491

E-Mail: mbatools@aol.com • Web: www.mbausa.com

Course Type: Residence

FOLEY-BELSAW INSTITUTE

Larry Ligier

Jacksonville, FL

Yes. They went way beyond my expectations.

Curiosity of what made a lock tick, plus lock collecting.

As I stated earlier, Foley-Belsaw will come to you! All that is needed is a desire to succeed, access to a phone and a mailing address. Foley-Belsaw will work with you wherever you are and at own your pace.

For more information on the education
Larry Ligier received contact:

Foley-Belsaw Institute

6301 Equitable Rd.

Kansas City, MO 64120

Phone: 800-821-3452, 816-483-4200

Fax: 816-483-5010

Course Type: Correspondence

**Did the school meet
your expectations?**

**What attracted you to the
locksmith industry?**

**Any comments
regarding the
school?**

OTHER SCHOOLS AND EDUCATIONAL SOURCES

Acme School of Locksmithing

11350 S. Harlem

Worth, IL 60482

Phone: 708-361-3750

Fax: 708-448-9306

Course Type: Residence

**California Institute of
Locksmithing Inc.**

14721 Oxnard St.

Van Nuys, CA 91411

**College of Security
Technology & Management**

12800 South U.S. 71

Grandview, MO 60430

Phone: 816-765-5551

Fax: 816-765-1777

E Mail: CSTMAQMI.COM

Web: www.MARKETLYNX.COM/CSTM

Colorado Lks. College Inc.

4991 W. 80th Ave. Unit 103A

Westminster, CO 80030

Golden Gate School of Lock Technology

3722 San Pablo Ave.

Oakland, CA 94608

Phone: 510-654-2677

Granton Institute of Technology

263 Adelaide St.

West Toronto Ont. CANADA M5H1Y3

Phone: 416-977-3929

Fax: 416-977-5612

E Mail:

INFO@GRANTONINSTITUTE.COM

Web: www.GRANTONINSTITUTE.COM

Lock Popper School

111 Broadway Ave., #133107

Boise, ID 83702

Phone: 800-532-5625 or (208) 861-8003

Fax: 208-424-0258

E Mail: lockpopper.com

L.T.C. Training Center

P.O. Box 3583

Davenport, IA 52808-3583

Phone: 800-358-9393 or (319) 322-6669

Fax: 319-324-7938

Course Type: Correspondence

Lockmasters Inc.

5085 Danville Rd.

Nicholasville, KY 40356

Phone: 800-654-0637 or (606) 885-6041

Fax: 606-887-0810

Web:

EDUCATION@LOCKMASTERS.COM

Course Type:

Residence & Correspondence

Locksmith School Inc.

3901 S. Meridian St.

Indianapolis, IN 46217

Phone: 317-632-3979

Fax: 317-784-2945

Course Type: Residence

Locksmithing Institute of America Inc.

226 Fairfield Rd.

Fairfield, NJ 07004

Messick Vo/Tech Center

703 South Greer

Memphis, TN 38111

Phone: 901-325-4840

Fax: 901-325-4843

Course Type: Residence

North Bennett Street School

39 North Bennett St.
 Boston, MA 02113-1998
 Phone: 617-227-0155
 Fax: 617-227-9292
 Course Type: Residence

Northern Melbourne Institute of Tafe

Cnr. Bell St. & Waterdale Rd.
 Heidelberg West Victoria
 Australia 3081
 Phone: 613-9269-8687
 Fax: 613-9269-8673
 E Mail: GARRYW-LOCK@NMIT.VIC.EDU.AU
 Web: www.nmit.vic.wdu.au/
 Course Type: Residence

NRI School of Locksmithing

4401 Connecticut Ave. NW
 Washington DC 20008
 Phone: 800-321-4634 or (202) 244-1600
 Fax: 202-244-2047
 Course Type: Correspondence

Pine Technical College

1000 4th St.
 Pine City, MN 55063
 Phone: 800-521-7463 or (320) 629-6764
 Fax: 320-629-7603
 E Mail: HECKMAN:@PTC.TEC.MN.US
 Web: www.PTC.TEC.MN.US
 Course Type: Residence

Prince George's Community College

301 Largo Rd.

Largo, MD 20774-2199
 Phone: 301-322-0871
 Fax: 301-386-7502
 E Mail: MO5@EMAIL.PG.CC.MD.US
 Web: PGWEB.PG.CC.MD.US
 Course Type: Residence

Professional Career Development Institute

3957 Parkway Lane
 Norcross, GA 30092
 Red Deer College
 Box 5005
 Red Deer, AB Canada T4N 5H5
 Phone: 403-342-3450
 Fax: 403-342-3576
 E Mail: SHAUN.LOVELL@RDC.AB.CA
 Web: www.rdc.ab.ca/vdc/0002/trades/locksmith
 Course Type: Residence

School of Lock Technology

1049 Island Ave.
 San Diego, CA 92101
 Phone: 619-234-4512
 Fax: 619-234-5937
 E Mail: GRAH@GRAHSECURITY.COM
 Web: www.GRAHSECURITY.COM
 Course Type: Residence

School of Lock Technology - Orange

302 W. Katella Ave.
 Orange, CA 92867-4705
 Phone: 800-794-4161 or (714) 633-1366
 Fax: 714-633-0199
 E Mail: COMLOCK97@AOL.COM
 Web: www.comlock.com

Course Type: Residence

School of Lock Technology-Austin

509 Rio Grande St.
 Austin, TX 78701
 Phone: 888-511-8874 or (512) 473-8874
 Fax: 512-472-4838
 E Mail: OCOTHON@AOL.COM
 Web: www.CITYSEARCH.COM "AUSTIN"
 Course Type: Residence

Southern Locksmith Training Institute

1387 Airline Drive
 Bossier City, LA 71112
 Phone: 318-227-9458
 Fax: 318-746-1734
 E-Mail LOCKS197@AOL.COM

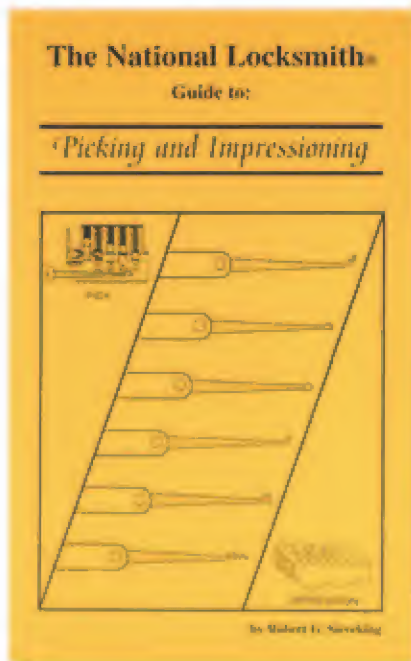
The Academy of Locksmithing

2220 Midland Ave. Unit 106
 Scarborough Ont. Canada M1P 3E6
 Phone: 888-272-8265 or (416) 321-2220
 Fax: 416-321-5115
 E Mail: TAOL@PLATINUM1.COM

Universal School of Master Locksmithing

3201 Fulton Ave.
 Sacramento, CA 95821
 Phone: 916-482-4216
 Fax: 916-485-9385
 Course Type: Residence & Correspondence

INL



Picking & Impressioning

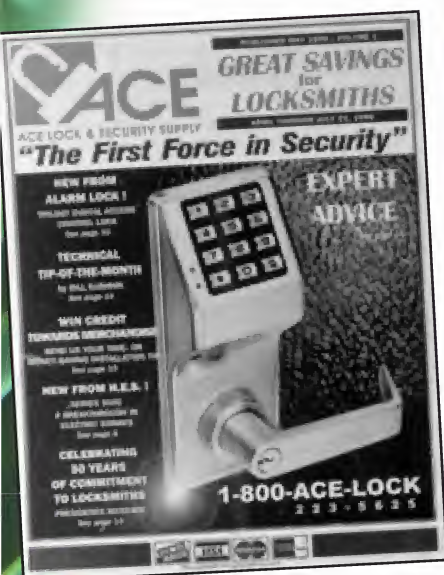
Here is the most complete book ever published on picking and impressioning locks! You will have everything you need to know about how to open almost every kind of lock that can be picked.

CLICK HERE TO LEARN MORE



#PI

Literature & Brochures



Ace Lock & Security Supply's New Brochure

Ace Lock and Security Supply has a new edition of its 16-page quarterly security products brochure featuring a broad range of state-of-the-art security products and locksmith supplies to satisfy need, all at dramatic savings.

Ace Lock & Security Supply expanded significantly last year in preparation for business in the next century. "We see a revolutionary change and growth in access control and electronic locking devices," said Dan Goldstein, Ace president, "and we are prepared to help locksmiths meet the challenges of the changing cutting-edge technology." Locksmiths and other security professionals who need guidance in this new world of electronic locksmithing are invited to turn to Ace for hands-on advice and solutions to any installation problem."

To receive the new brochure and its subsequent quarterly issues contact Ace Lock and Security Supply, 565 Rahway Avenue, Union, New Jersey 07083. Phone: 800-Ace-Lock; Fax: 800-ACE-FAX4. Or, circle number 384 on Rapid Reply.

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DORMA 6000 Series Exit Device Brochure

The DORMA Group offers a new brochure detailing the DORMA 6000 series exit devices. The 32-page, color brochure covers the 6100, 6300, 6400, 6500 series fire and panic exit devices that have been performance-proven in schools, universities, malls, hospitals, nursing homes and other demanding applications.

The brochure provides expanded product information on all 6000 series devices, listings, features trim, mullions and related accessories.

For more information contact DORMA Door Controls, DORMA Drive, Drawer AC, Reamstown, PA 17567-0411. Phone: (800) 523-8483. Or, circle number 385 on Rapid Reply.

Jensen 1998-99 Tools Catalog

Jensen Tools has released a completely redesigned and expanded, 308-page full color catalog. This comprehensive reference guide features premium Jensen-brand products including 50 pages of original JTM tool kits, a brand new line of high quality handheld JTM multimeters, and an extensive selection of hand tools. Over 5,000 total products from all major manufacturers are available including test equipment, computer and LAN, wire & cable, telecom, power tools, soldering, storage and handling, work stations, lighting and optical, shop supplies, and communications products. Hundreds of new products — many new to the industry — have been added.

For a free copy of the catalog, contact Jensen Tools 7815 S. 46th St., Phoenix, AZ 85044; Phone: 800-426-1194;



Fax: 800-366-9662;
Web: jensentools.com; E-mail: jensen@stanleyworks.com. Or, circle number 386 on Rapid Reply.

Labor Saving

Devices® Catalog

Possibly the most complete offering of specialty tools to install and test wires and cables, this new brochure includes over 15 new products introduced over the past year. Complete installers kits, new specialty drill bits and saws, heavy duty cable running kit and cable pulleys for the commercial installer, a complete line of pick-up and inspection tools, 15-in 1 screwdriver with standard or tamperproof bits, high quality kneepads and cable organizers. This brochure is more than a detailed product catalog: 10 pages are dedicated to tips and techniques on how to best tackle the most recurring problems faced by installers.

Novice or experienced installers are sure to find in this catalog the tool they always wish they had, and/or learn an installation trick that will save time and money. LSD's web site (www.lsdinc.com) will give you pricing information and the possibility to purchase on-line, through one of their distributors electronically linked to their web site, the product(s) of your choice.

For more information or a free

catalog, contact Labor Saving Devices®, Inc., at (800) 648-4714; Fax: (303) 287-9044; E-mail: info@lsdinc.com; Web site: www.lsdinc.com. Or, circle number 387 on Rapid Reply.

Lockmasters 1999 Catalog

Lockmasters® has strived to provide you with quality new products and they know you will like what you see in their new 1999 Tool Catalog. It features fantastic items like a new Equalizer™ II lever rig and a new generation of automatic safe dialers. Your comments and suggestions have been incorporated into these "next generation" products and the result is the finest quality tools available today. In addition, they are now stocking over 18 of the industry's

most popular key machines!

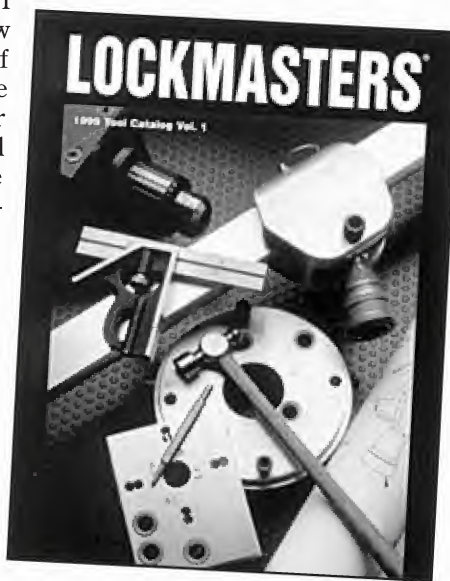
To order your free tool catalog, please call 800-654-0637, ext. 498. Or, circle number 388 on Rapid Reply.

Locknetics Brochure on Computer-Managed Systems and Software

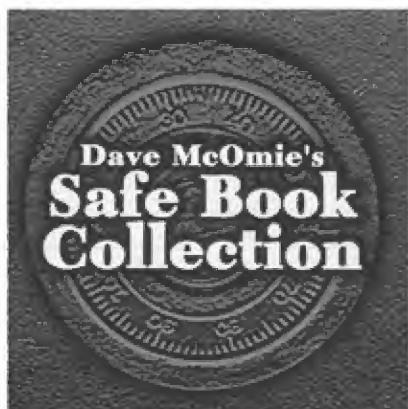
Locknetics Security Engineering has released a revised, eight page color brochure on their "Intelligent by Design" Systems and Software. Intelligent by Design denotes products

designed from the outset to provide modular, integrated, microprocessor-based access control. The designation spans a wide range of components and software, from electromagnetic and electromechanical locks to exit devices and even programmable gate locks and cabinet locks. Both stand-alone and hard-wired systems are included.

Two product areas



Dave McOmie Safe Book Collection on CD



This CD contains every book Dave has ever published.

CLICK HERE TO LEARN MORE

#DMCD - 1

TNL Subscriptions



This is THE source for automotive technology, safe opening techniques, electronic security and much, much more.

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#SUB - 1,2,3,4,5,6

are new and substantially changed for this edition. The improved CM Series of stand alone cylindrical and mortise-style electromechanical locks, allow programming of up to 150 users and retrieval of the optional 100-event audit trail. A 500 user/500-event audit trail is also available. The 6000 Series SmartExit programmable exit devices offer new solutions. SmartExit devices feature onboard microprocessor control for immediate egress, delayed egress, dogging, or request-to-exit capabilities.

For further information, contact: Locknetics Security Engineering, 575 Birch Street, Forestville, Connecticut 06010. Phone: 860/584-9158; Fax: 860/584-2136; Web: <http://www.locknetics.com>. Or, circle number 389 on Rapid Reply.

Medeco Offers Free Security Booklet

Medeco High Security Locks, is offering a free information booklet packed with tips on how to keep your home and business safe. This booklet, entitled "Security Tips for Your Home & Business," gives information on when homes and businesses are most vulnerable to break-in and what can be done to prevent it. It functions as a "check list" for personal security and covers everything from suggestions for door quality and lock types to advise on neighborhood watch programs.

Medeco created the security tips booklet to give home and business owners clear, concise security advice in layperson terms. What Medeco is offering in this free booklet is a way to not discourage thieves, but to outsmart them at every turn by anticipating their moves, step by step.

For a free copy of Medeco's "Security Tips for Your Home or Business" booklet or for additional information, call toll free 1-888-6MEDECO. Or, circle number 390 on Rapid Reply.

Olympus Videoscope Systems Brochure

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Olympus America Inc., Industrial Products Group, has recently released an 18-page, full-color brochure describing the new Olympus Videoscope systems. Videoscopes are remote visual inspection (RVI) instruments designed to inspect hard-to-access places such as inside machinery, turbines, valves,

pipings, and large dark voids. Videoscopes have a miniature camera — a high resolution CCD image sensor in the distal tip of the probe — that sends back true-color live video images.

Features in the brochure are the new Series 6 Videoscopes with advanced optics and controls, image management functions, and "Dual Optics Technology" which makes possible "SimulView" and "Stereo measurement."

To obtain a free copy of the brochure, write Olympus America Inc. Industrial Products Group, Two Corporate Center Drive, Melville, NY, 11747. Phone: 1-800-446-5260; Web: www.olympusipg.com. Or, circle number 391 on Rapid Reply.

Omnia Catalog

New literature from Omnia Industries focuses on the firm's complete line of bathroom accessories in solid brass. It enables dealers and distributors to include this broad range of choices in their counter catalogues, making it easier for customers to make their selections.

The brochure is designed for comparative shopping, with each of the ten distinct design lines photographed in crisp vignettes illustrating the range of pieces available. Finishes include polished and lacquered brass, polished chrome and the two combined, many accents of frosted or clear glass or white porcelain.

For more information about Omnia Industries, Inc. call: (973) 239-7272. Or, circle number 392 on Rapid Reply.

Roto-Zip Brochure

Roto Zip Tool Corporation has a

new Spiral Saw brochure, created by using customer testimonials from a very diverse group of people. This comprehensive 4-color glossy booklet divides Spiral Saw customers into 3 general categories: (1) the professional trades, (2) the do-it-yourselfers (DIYers), and (3) artists, hobbyists and crafters. The Spiral Saw's primary advantages are cutting speed and control. It slices material rather than the ripping action of a jig, reciprocating, and circular saws. Using a variety of patented Zip® Bits, this spiral cutting action cleanly slices through virtually any type of commonly used building material up to 1-inch thick.



Roto Zip Tool Corporation, a privately held manufacturing company, is the pioneer of Spiral Saw technology and a leader in the power tool industry. Roto Zip is dedicated to cutting edge innovations through a track record of "firsts" in the industry. From the first drywall cutout tool to the first cordless spiral saw, Roto Zip has led the way in making tough cuts faster, cleaner and easier.

For more information on Roto Zip products, contact Roto Zip Tool Corporation at 1861 Ludden Drive, Cross Plains, Wisconsin 53528. Phone: 1-877-RotoZip (877) 266-4290; Web: www.rotozip.com. Or, circle number 393 on Rapid Reply.

Truecraft Tools Creates Improved Catalog

Truecraft Tools has recently updated their current professional hand tools catalog to include more than 250 new products. Truecraft's previous two-color catalog of 80 pages has recently been transformed into a 208 page, full color catalog that features a new updated look. Each product category is organized into color-coded sections for ease of use. Furthermore, to distinguish sizes, SAE and Metric charts are color-coded. The new Truecraft catalog features both an item number index and an easy to use product type index.

The catalog includes additional



information never before included so that the user needs to reference only one book for all their hand tool needs. The catalog includes dimension specifications, weights, and merchandising card sizes for all 2,000 items included in the catalog.

For more information, contact Truecraft Tools, 615 Pierce Street, Somerset, NJ 08875-6739. Phone: (732) 805-1800 or (800) 532-8665. Or, circle number 394 on Rapid Reply.


Monaco Lock Company's New Catalog

Monaco Lock Co., Inc. has introduced their volume 11, full-line catalog, called "The Blue Print to Security." This catalog is filled with product information, dimensions, exploded parts views, and the latest product updates available at the time of print. All this information is helpful in making recommendations to customers when ordering. An extensive table of contents brings you quickly to the categories and items. You can find a credit application on the last page.

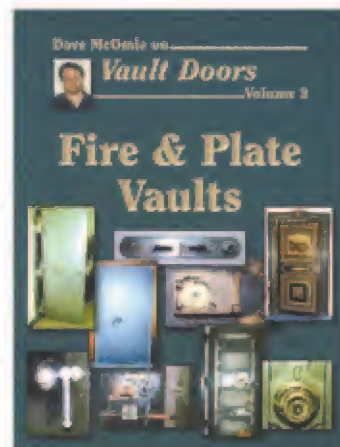
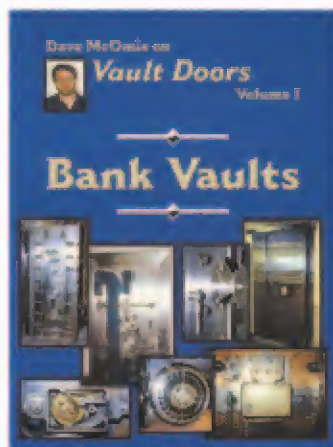
Call their catalog hotline at 888-526-6094 extension 154 for your free copy of the catalog. Or, circle number 395 on Rapid Reply.

Architectural Builders Hardware

Architectural Builders Hardware Manufacturing (ABH) offers a wide variety of door hardware. The most unique is the 6700 Series Hospital Push/Pull Trim. This trim can be used with almost any manufacturer's mortise lock. For a quick and easy change from knobs to Push/Pull with no additional door prep.

For a copy of the new 12-page brochure, contact ABH Manufacturing at (847) 437-9901 or e-mail abhinfo@abhmf.com. Or, circle number 396 on Rapid Reply. 

Dave McOmie on Vault Doors Vol. 1 & 2



CLICK HERE TO LEARN MORE

#VD - 1, VD - 2



Wafer Lock Reading

Easy to learn.
No Codes needed.

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#WLR - 1

Packed & Rarin' to go with Weather Guard®

by Jake Jakubowski

Part
1

I don't know about you, but one of the on-going battles I've fought since I've been in this business is trying to figure out how to stuff ten pounds of material, into a five pound bag. That is, how to arrange, rearrange and re-re-arrange the interior of my van to hold increasingly larger amounts of inventory, parts, tools, key machines, pinning kits and those indispensable "I-might-need-that-some-day" items. I even tried - for a while - a 1-1/2 ton International with a big box on the back. It didn't take me long to go back to the old Green Lizard (my half-ton cold natured Dodge).

Over the years, I must have "refurbished" the working area of that van at least a half-dozen times to accommodate the increased demands I was putting on its limited storage area. *Photograph 1*, shows you the original cabinetry after I cleaned out all the junk. What you can't see is the keyboard, which is up in the "topper" and the storage units over the rear doors, which are also in the topper. If I

told you how much stuff I was carrying in the van, you wouldn't believe me. However, I will tell you that I had a lot in that truck!

When I finally decided to retire the old green lizard (with well over 300,000 miles on it) and buy a new van, I made up my mind that I was going to start out right. Not that there's anything wrong with D.I.Y. cabinetry, but I wanted the interior as well as the exterior of my new van to project an image of professionalism and pride that escaped me in the old van. I'm just not competent enough as a carpenter to do that with the sort of cabinetry I can cobble together.

I was determined to utilize the storage area of this new van to its maximum and still have a fair-sized work area and some room to grow. I also wanted to make the van and its contents as secure as possible. I felt that in order to accomplish that goal, I needed to turn my van over to someone I believed to be a recognized authority in the field. That is, a competent professional who took pride in their product, was dedicated to providing me

with the most efficient work and storage areas designed to fit my specific needs; and who was committed to customer satisfaction. After attending the ALOA trade show in Nashville last year and visiting their booth, I decided to call on the folks at WEATHER GUARD® to help me outfit my new Dodge Extended 3500 Maxi-Van.

Before I get into the actual selection and installation of the modules that make up the package that WEATHER GUARD® outfitted my van with, I want to clarify the reason I have a window van. When the old green lizard gave up the ghost - I was in a bit of a hurry to replace it. My new 15-passenger, window van was the only Dodge Extended 3500 Maxi Van with front and rear air (which I wanted) that I could lay my hands on, in very short notice. With some high-density polypropylene (*see photograph 2*), WEATHER GUARD's cabinetry, bulkhead and a pair of CargoLocks, the van, inventory, machinery and equipment that it carries, are as physically secure as I can make them.



1. The original cabinetry after I cleaned out all the junk.

2. With some high-density polypropylene WEATHER GUARD's cabinetry, bulkhead and a pair of CargoLocks, the van, inventory, machinery and equipment that it carries, are as physically secure as I can make them.





3. I cleaned everything out of the van, except the temporary work surface and storage units.

4. Chuck Peters, Regional Sales Manager for WEATHER GUARD® (at far right along with the fine folks from Fontaine Truck Equipment.



I took my van down to Fontaine Truck Equipment (Fontaine has nine locations throughout the United States) in Charlotte, North Carolina to begin the outfitting process. As you can see by *photograph 3*, I cleaned everything out of the van, except the temporary work surface (a salvaged desk) and storage units (totes and cardboard boxes). I left these goodies in the truck so Fontaine's personnel would have an idea of what I carried and what I needed to store. The first thing the folks at Fontaine - along with Chuck Peters regional sales manager for WEATHER GUARD® (see *photograph 4*, at far right) - did was to sit down with me for about an hour to thoroughly plan my van's new interior. This was after they had spent a little more than an hour crawling around inside my van and measuring everything in sight.

If that seems like a lot of trouble to go through just to determine what I wanted and how I wanted it, believe me, when you see the completed package you'll understand why the folks at WEATHER GUARD® and Fontaine were so thorough and why I am one very pleased locksmith.

Starting with WEATHER GUARD's basic Locksmith package as seen in *illustration A*, Todd Sherrill, Fontaine's

600-1228 Locksmith Package For Full Size Dodge

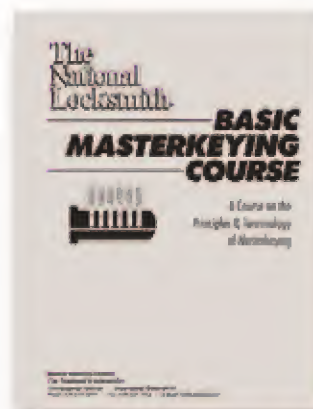
Package Weight 689 lbs.

Note: Relocating tire jack and removing jack mounting bracket is required.

Module #	Item #	Qty.	Model #	Description
400-1041	1	1	86001	Driver Side Panel
	2	1	86002	Pass. Side Panel
	3	1	86701	Dr. Side Stab. Kit
	4	1	86702	Pass. Side Stab. Kit
	5	1	8862	Spare Tire Brkt.
400-1041	6	3	8914	4 Drawer Cab
	7	3	8312	Lockable Cabinet
400-1042	8	1	8131	Wheel Well Cab
	9	2	8901	4 Drawer Cab
	10	2	8311	Lockable Cabinet
	11	1	8870	Lit. Holder
400-1015	12	1	8361	Catalog File Unit
	13	1	8141	Wheel Well Cab
	14	2	8901	4 Drawer Cab
	15	1	8867	42" Work Top
	16	1	8905	9 Drawer Cab

A. WEATHER GUARD's basic locksmith package

Basic Masterkeying Course



13 Lesson
450 page course

The Basic Masterkeying course is designed for the locksmith who wishes to become proficient in Basic Masterkeying.

CLICK HERE TO LEARN MORE



#MK - 1

Charlotte manager, helped me (see photograph 5) customize the rest of the van's interior. Since I had the Dodge Extended 3500 Maxi Van, there was plenty of room to install additional storage units from WEATHER GUARD's extensive offering of cabinets, racks, shelving, work surfaces and storage units.

After Todd had helped me design the best work and storage layout for my particular needs, the installation got under way.



5. Todd Sherrill, Fontaine's Charlotte manager, helped me customize the rest of the van's interior.

6. The first thing to be installed was the screen bulkhead.



7. The bulkhead is attached to the side post at the center door the crossbeam in the roof as well as thoroughly bolted to the floor in the work area.



8. Attaching the base of a 3 drawer jumbo unit, which had a 4-drawer unit above it in the work area. Everything was securely bolted to the floor, walls, and when necessary the ceiling of the van.



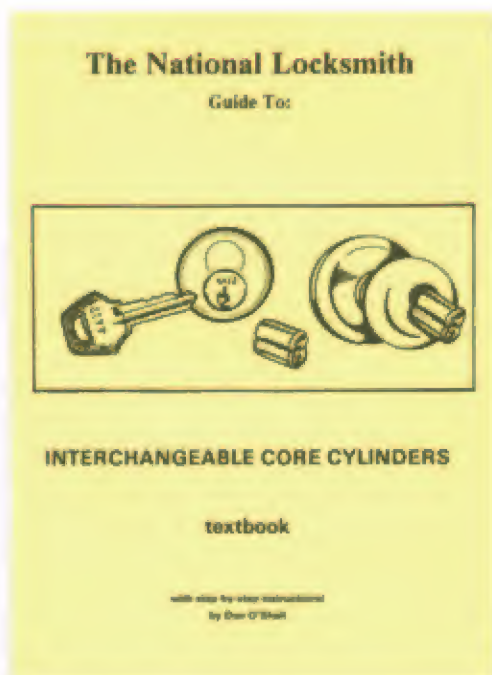
9. A literature holder is being installed on the 3 drawer jumbo unit.



10. The majority of the drawers like these 4 drawer units include dividers. The base of the drawers also has a sound-damping material in them. In fact, all the cabinets, shelves and most compartments used the same sound damping material. It makes for a very quite ride.



11. Each drawer has the positive locking bar to prevent drawers from flying open when traveling the streets.



Interchangeable Core Cylinders

Covers all this...

- Best/Falcon/Arrow/Eagle/(A2)
- Best A3
- Best A4
- Corbin X Removable Core
- Corbin Z Removable Core
- Russwin Removable Core
- Emhart System 70 Removable Core
- Sargent Removable Core
- Schlage, Yale, Lockwood
- Medeco Removable Core

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#ICB - 1

12. The installation is almost complete. Note the cardboard mats that the installers put down to keep the floor mat clean.



13. The area over the A/C exhaust and A/C return was left open with a 36" L wheel well frame for air circulation. The compartment next to it has a door for secure storage.



14. Positioned between the front seats was a lockable file box that doubled as a desk.



15. This door tray makes an excellent screw, nut and bolt storage area with its compartmentalized interior and lock down lids.



16. The entire installation is nearly complete. The bottom storage area, which is a 69" L door & back panel, is an excellent place for power tools.



17. The counter-top that makes up the work surface in the van was the only item that was not a WEATHER GUARD® product.

As you can see, Todd's recommendations and Fontaine's broad inventory of WEATHER GUARD® products gave me a van interior that I felt was the best working interior for my particular needs. If you look over the photographs of the installation carefully, you'll notice that the majority of the installation consists



18. Even greater storage capacity was achieved by utilizing WEATHER GUARD's stackable Itemizer® Drawer Units.

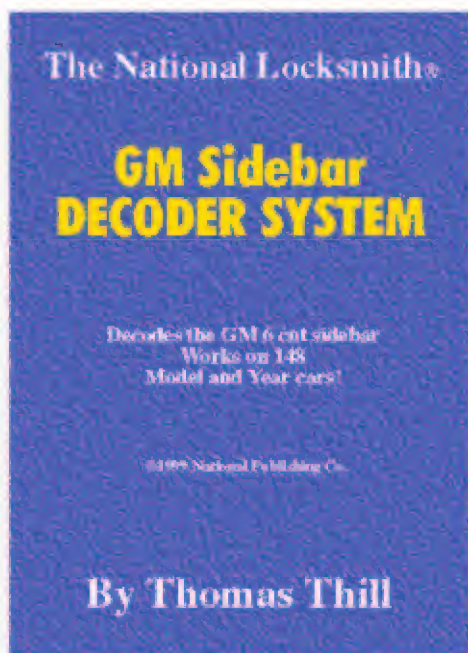
of drawers, doors, shelves and compartments for the secure storage of tools, inventory and the inevitable "can't-do-without-it" items that most all of us collect.

You should also take note that in spite of the various cabinets I still managed to come out with a 72" long work surface for my key machines and

workbench. By the way, the counter top that makes up the work surface in the van was the only item that was not a WEATHER GUARD® product. (See photograph 17.) I wanted a six foot work surface and I had to special order this custom counter top before the installation could begin.

The amazing thing is that in spite of all the storage area and work surfaces that Todd helped me plan into my van, there's still room for me to sit down on my stool and work! In fact, when you get right down to it, I have more personal workspace with the WEATHER GUARD® interior than I had before the package was installed. When you consider that I manage to take up a fair amount of room, even in a large work area, WEATHER GUARD® and Fontaine did a superb job in meeting my needs.

Todd managed to show me how to gain even greater storage capacity by utilizing WEATHER GUARD's stackable Itemizer® drawer unit (Model 328) which stack just behind the bulkhead, allow the drawers to be opened through the side door. (See photograph 18.) Each of these drawers are approximately 48"x6"x12" and the four drawer unit gives me roughly 8



GM Sidebar Lock Decoder System

Tom Thill, the author of a new book, has invented an amazing new way to make keys for six cut GM Sidebar Locks.

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#TT - 1



19. I can, if I choose, use the top of the stacked Itemizers as an extra worktable, storage surface.

cu. ft. of extra storage space. Each Itemizer® came with drawer dividers that allow me to organize the drawers to suit my needs. Another plus is that I can, if I choose, use the top of the stacked Itemizers as an extra worktable, storage surface or machine stand. (See photograph 19.)

Illustration B, is the schematic that WEATHER GUARD® prepared for my approval prior to the actual installation. I thought that was a truly professional touch, since it gave me an opportunity to evaluate the proposed package and make any changes before the units were installed. That way, I wouldn't find out later that I really didn't have what I wanted, or where I wanted it.

How much does it cost to outfit a van? That depends on what each van owner wants and the type of interior they choose. WEATHER GUARD® packages start at around eight hundred dollars and increase as your requirements dictate. Because of WEATHER GUARD's ability to respond to each van owners needs, WEATHER GUARD® dealers like Fontaine, can help you personalize your van's interior so that it reflects your specific requirements.

Consequently, the true cost is not what you pay up front, but what you save in lost man-hours, frustration and aggravation because you organized your van's interior to suit your individual

weather guard.

DRAWING NUMBER
SFD-1354-1

COMPLETE LINE OF FULL SIZE AND MINI VAN INTERIOR STORAGE SYSTEMS AND RACKS
©1991 KNAACK MANUFACTURING CO., 420 E. TERRA COTTA AVE., CRYSTAL LAKE, IL 60014, 815-459-6020

BILL OF MATERIAL			
ITEM	QTY	PART #	DESCRIPTION
1	1	86500	Screen bulkhead
2	1	86700	Stabilizer kit
3	1	328	Itemizer® 4-drawer unit
4	1	R8861	File box
5	2	8311	Lockable cabinet
6	4	8901	4 drawer unit
7	8	8896	Drawer dividers for 8901
8	1	8130	36"L wheel well frame
9	2	8112	Large bin dividers (6)
10	2	8089	66"L extra shelf
11	1	R8959	43"H end panels (2)
12	1	8269	66"L shelf work cover
13	1	8815	66"L extra flat shelf
14	5	7601	T-mounting bracket
15	1	8361	Catalog file unit
16	1	89024	Van mat
17	1	R8918	18 drawer parts cabinet
18	1	8906	6 drawer parts cabinet
19	1	8805	66"L retainer lip
20	2	20-5801W	Shelf support
21	1	8569	66"L door & back panel
22	2	R8908	8 drawer parts cabinet
23	2	8903	3 drawer jumbo unit
24*	6	8907	Drawer dividers
25**	1	-	Table top
26	1	8880	Literature holder
27	1	8875	Hard hat rack
28	1	8866	Fire extinguisher
29	2	8877	Practice holder
30	1	8873	Ext. cord brackets (3)
31*	1	8865	Reflector kit
32*	4	8841	Shelf mat
33	1	8470	Door tray
34*	50	21-047	Round mtg. spacer

* = Not shown
** = Customer supplied

B. The bill of material or list of various WEATHER GUARD® products that was to be installed and the schematic that WEATHER GUARD® prepared for my approval prior to the actual installation.

needs. In other words, the true cost of a professionally outfitted van interior, is determined by how much more effectively you are able to perform each day because you spend less time fighting with inadequate, ineffective, inefficient storage and cluttered work areas in your van. After all, time really is money in our business.

Whether you're a one-man mobile operation, or a multi-truck shop, your mobile operation's profitability can be directly affected by how effectively you, or your employees, can perform. A well thought out, properly planned, expertly outfitted van interior can, I believe, help each of us perform to our maximum with less effort. If my belief is valid, then it follows that a properly designed work van interior is clearly essential for the profit minded, professional locksmith.

I believe WEATHER GUARD®, and WEATHER GUARD® dealers, like Fontaine Truck Equipment, have the answers to help each of us more effectively utilize the limited amount of space in our vans so that the time we spend working in that space is more productive.

The photographs that you see in this article obviously revolve around the surveying of a new van to customize a WEATHER GUARD® package to my specifications, and the basic installation of those products. Next month's article

will deal with how I utilized the space and how ergonomically the van's new interior fits me.

When you see how utilitarian the van's WEATHER GUARD® package appears after I re-outfit it with my machines, inventory, tools and other goodies, I think you'll agree with me that the interior that Fontaine and WEATHER GUARD® helped me design, is all that I claim. I'll let you in on a secret: All those drawers, bins, cabinets, shelves and racks are still not maxed out! Even with me in the van, I have room for more "stuff!"

In the meantime, why not give WEATHER GUARD® or Fontaine Truck Equipment a call and see how they can help you start working more effectively? To find the nearest Fontaine Truck Equipment branch call: 1-800-824-3033 or call WEATHER GUARD® (1-800-456-7865) for the name and address of their nearest authorized WEATHER GUARD® dealer. You can also ask for their free WEATHER GUARD® catalog. Tell 'em, "Jake, told me to call!"

Don't forget to follow up next month for the conclusion of this article and discover how WEATHER GUARD® and Fontaine showed me how I could stuff ten pounds of goodies into a five-pound package and still have room to spare! See you then. Y'all heah me, now? **INL**

A Stubborn _____ Mosler



by Dale Libby, CMS

One thing exciting about safe and chest cracking is meeting an enemy who will put up a good fight because eventually the safe will open. (That is what you have to keep telling the safe and yourself, and you must believe it.) Just like fishing, some fish put up a great fight, and others give up without much skill being involved.

The opponent for this "Safe Safari" is a Mosler round lug door money chest. (See photograph 1.) This door, although not exactly prehistoric, offers several options for opening. The dial is old, the opening (turning) handle is homemade, and the hinges do not give anything away as to the type of lock present.

This was a job for Tommy Powers that I asked to be let in on. That was mistake number one. (Not really, I needed a humbling safe job.) The purpose of

opening this unit was to see if the former principal of the grade school had left anything in the safe. The unit was to be scrapped, but it had to be opened first. Neither Tommy nor I believe in flat rate pricing for safe openings. Too much can go wrong, involving more time and work than anticipated.

Identification of the Safe

I opened my dusty (trusty) McOmie books as Tom tried his hand

at manipulation. He counted four wheels and tried to determine a drop-in location. We could find no indication of a drop-in point anywhere. The wheel count indicated that the first turn (in either direction) would be 5 times right to "X".

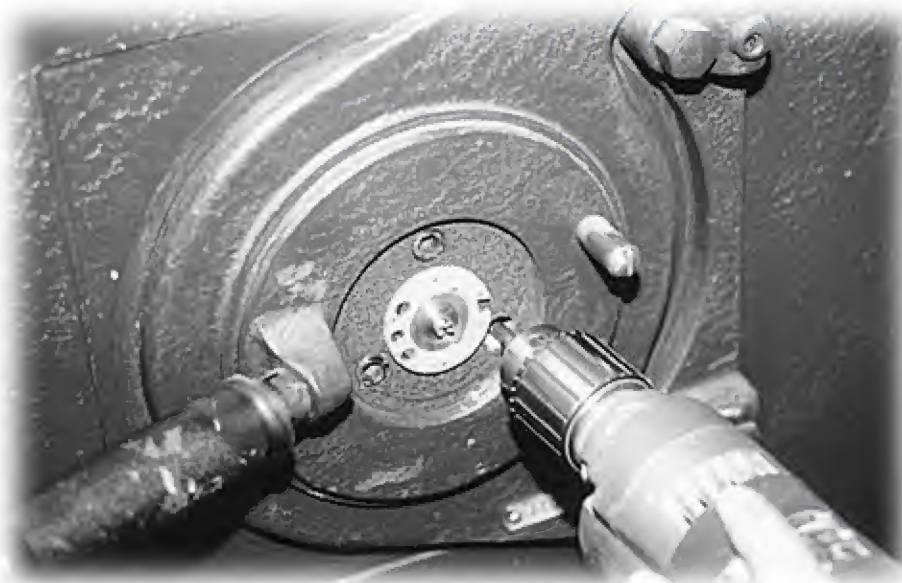
I could not find a door exactly like the one we were working on, but I knew that the lock was probably a "hook bolt" type of Mosler lock. The combination lock hooks into the active bolt with a nasty diabolical plunger

relocker inside the bolt. When the relocker is set off, this plunger shoots out against an internal screw and keeps the locking bolt in position. Sometimes this plunger goes slightly askew, so pushing it back from the side is not an easy option.

There is a school of thought that if you "pin" this relocker by drilling from the front of the door and then punch



1. More or less a typical prehistoric Mosler round door lug money chest



2. Drilling through the 4:00 cap screw hole. Perfect hole if I only had known.



3. Dibb's transferring tool with homemade pointer.



4. Close up of pointer made with a small hose clamp and a nail.

the lock, the relocker would not fire and you could then easily move the bolt into the open position. Don't do it. I have tried on several occasions and failed. This is an opening procedure for those with a death wish. Even the inner door on this safe was a candidate for this hare-brained idea, and I choose to pass. I have learned some things over the years and not drilling and punching the bolt on a hook bolt Mosler lock is one of them. More power to those that can do this.

Since one cannot manipulate if the contact points are not felt, we were forced to use the drilling option. *Photograph 2*, shows an S&G wheel on the spindle while we are drilling through the door at the 4:00 bearing plate bolt hole. The Allen head cap bolt has been removed as a shortcut to the door surface.

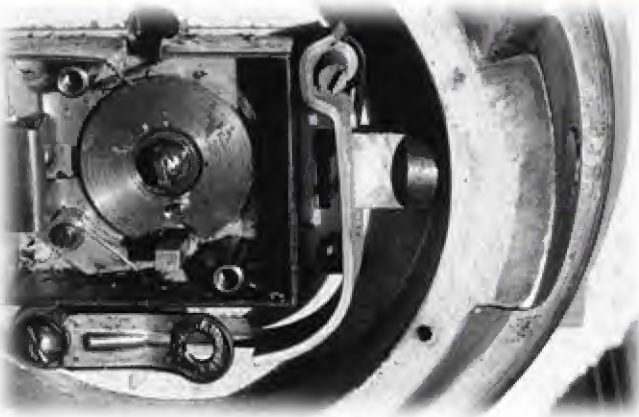
The wheel gave us a bit of an edge to determine angle of penetration for drop-in which was up slightly from the bearing plate hole position.

Now comes the ironic part of the story. We penetrated hardplate until we came to a 3/4 inch layer of copper. This indicates that the door is thermally protected, both by the copper diffusing layer and a separate thermally activated mechanism. I saw no labels on this door, but for all practical purposes it was a turtle or a TRTL-30.

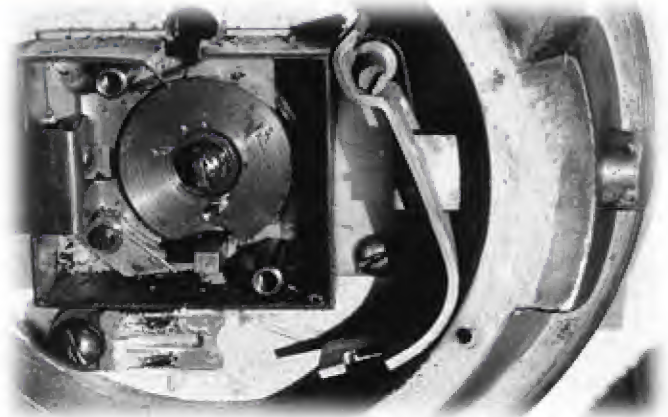
After the copper layer, there was a brief layer of case hardening and then the lock itself. The time to this point was about one hour. We attached the Dibb's magnetic dial ring and a homemade pointer. (*See photograph 3.*) Our regular pointers would not fit and always being prepared, the hose clamp/nail made a great alternative. *Photograph 4*, is a close up of the pointer and one of the bearing plate screws. This versatile pointer can be used on almost any size dial spindle if enough of it is sticking out from the face of the safe door.

The hole was perfect to view the wheels. The lock used on this unit was the dreaded RB-104 mounted left handed. The number 4 in 104 refers to 4 wheels. The opening lever has to go up, and the last turn is to the right. When you make assumptions about Mosler, you lose. They like to throw you a screw ball every once in a while.

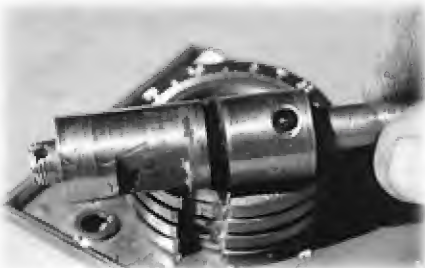
First, we could not agree on which bolt was the active bolt. It had to be



5. Close up of thermal relocker. Opening bolt is at 3:00 and relocker is at 9:00. The Mosler RB-104 lock is seldom encountered mounted left hand.



6. After heating with a heat gun, relocker and bolt shoot out and under spring pressure extend the 1-inch relock bolt



7. Dial spindle and 4 wheel hand change wheel pack.

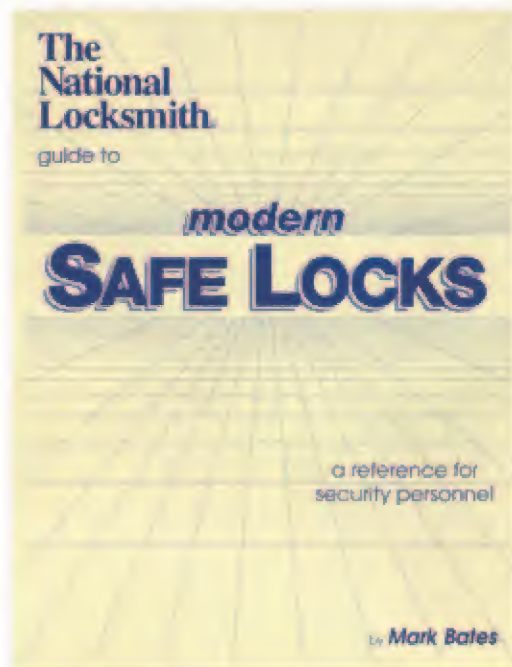
either at 9:00 or 3:00 o'clock. This one turned out to be at 3:00 o'clock with the relocker at 9:00. If we knew where the active bolt was, we could determine the position of the lever and hence, the drop-in position.

With the hole at 4:00, we could see all four wheels and the driver. We determined the combination through the hole and tried it many times. It was perfect, and the wheels lined up exactly every time. At this point, in theory, there are only 100 possible combinations. By adding one number to the combination it would eventually open.

Since neither of us was sure of the drop-in location, we made a few guesses. None of them worked. Instead of dialing 100 possible combinations until it opened, we opted to drill at 6:00 and view the lock from the bottom. After all, the safe was going to be scrapped, so repair was not an option.

After the hole was drilled we took a peek and was uncertain of what we were looking at. If only we knew at the time what we were looking at was the lever, but we didn't. We could not identify the lever and drop-in was only about seven numbers to the left. Where the hole was positioned, we just couldn't tell.

Modern Safe Locks



You always wanted to make money servicing safes?

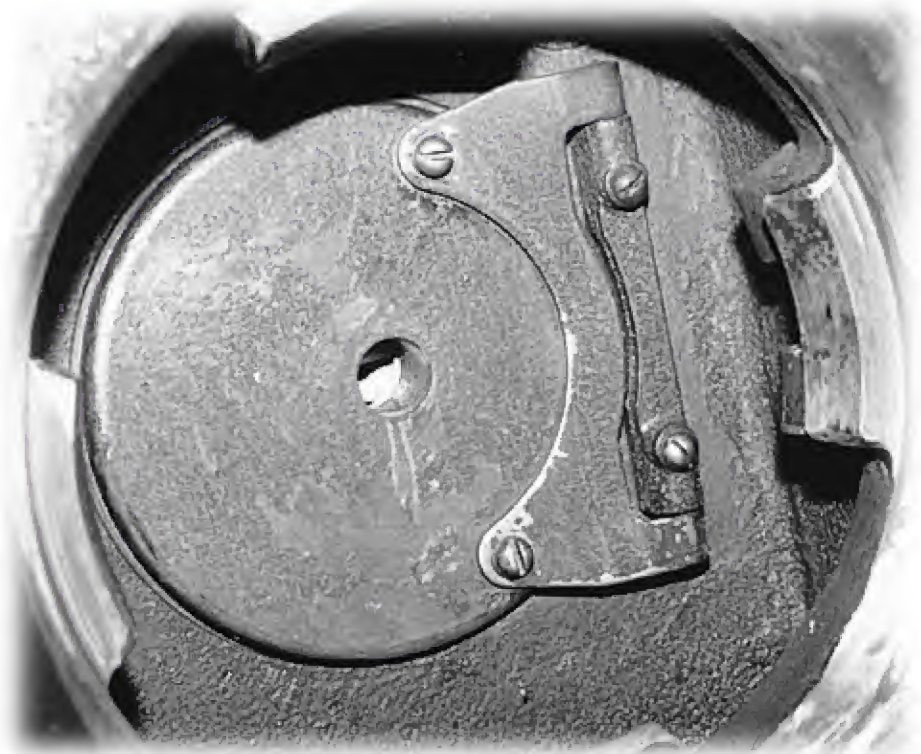
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#MSL - 1

Several drill bits and one drill motor later, we penetrated the top of the lock. Another great view of the lock and wheels, but no indication of the handing or the lever position of the lock. We started dialing 5 times right, 4 times left, 3 times right, 2 times left, back to drop-in and nothing. About 10 combinations later, with the drop-in position near the bottom of the lock, we started to get contact readings. We both let out a scream of success, for the contact readings were not there before, and they started to get stronger. Five minutes later the outer door was open.

In *photograph 5*, the relock bolt is held in place with a thermal link, which is at the bottom of the picture. I heated the link with a heat gun and the link pulled apart quickly. It is held together with low temperature solder. *Photograph 6*, shows the relocker extended. You can also see the opening lever at the bottom of the lock. This is how it is installed in the money chest door.

In *photograph 7*, we see the broken punch proof and shear proof dial spindle and the four hand change wheel pack of the RB-104.



8. Inner door with dual key nose already pulled.

After a brief sigh of relief, we then attacked the inner door. There was only one nose on this lock, which meant both keys (renter &

guard key) are inserted in the same nose to open. This lock and relock setup is another candidate for pinning and punching, but it's not

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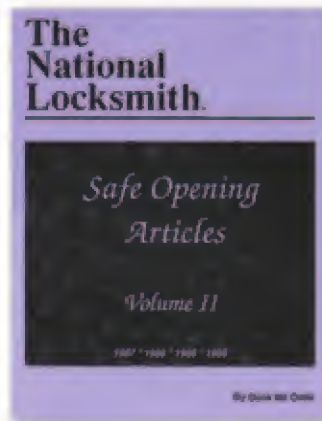


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#SUB - 1,2,3,4,5,6

Safe Opening Articles



Dave McOmie's original articles from when he first started writing for The National Locksmith are reprinted in this book.

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#SA - 2



9. Hook bolt configuration of inner and outer door is the same. Punching lock sets off diabolical bolt relock mechanism.

for me. My method of opening this lock, which is a bit cumbersome, is to pull the nose off the lock, and then remove all brass lever material by bending, drilling, pulling and hooking. (See *photograph 8*.) Once everything is removed, finally, the bolt bar with attached bolt will

move to the right and the inner door will open.

Photograph 9, shows the hook bolt arrangement with the relock spring loaded bolt. You cannot see the relocker, but it is there, trust me.

Open, quote great prices, and prosper. **TNL**

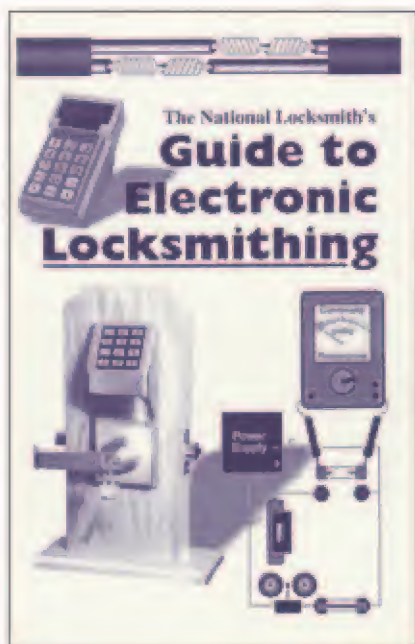
The Lure of the Lock



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#LURE



Electronic Locksmithing

Everyone knows there's big money in selling, installing and servicing electronic security such as mag locks, electronic strikes, and simple access control.

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#EL - 1

Door Controls International

Pannex Touchbar

by Ron & Chris Curry

A customer of ours with a restaurant had a recurring problem with patrons exiting through a side door that should only be used for emergency exiting. The customer wanted a solution to this problem and the answer was the Pannex Touchbar rim exit device with built-in exit alarm from Door Controls International in Dexter, Michigan. (See photograph 1.)

The existing rim mounted touchbar that was currently present on the hollow metal door was mounted with sheet metal screws and in desperate need of repair. (See photograph 2.) The Door Controls model 1210F, which is a 3-hour fire rated rim exit device, was selected for this installation. (See photograph 3.)

— 1200 Features —

A unique feature of this unit is the Pannex patented interlocking strike and latch system. When the strike and latch are engaged, they

form completely encased maximum-security interlock between door and frame. This is a very unique feature to this device. (See illustration A.)

Another good feature is the compact electronics package for the exit alarm. The touchbar is shipped with a 15/16" mortise cylinder with a long Yale cam installed, but will accept up to a 1-1/8" cylinder. The method for changing the lock cylinder is easy and no special tools are required. (See illustration B.)



A The Pannex patented interlock strike and latch system

2 The existing rim mounted touchbar on customer's door.



3 The Door Controls model 1210F, which is a 3-hour fire rated rim exit device.



1 The Pannex Touchbar rim exit devices.



– Alarm Operation –

The alarm portion of the bar is jumper programmable for a continuous or beeping horn. The continuous alarm feature allows the alarm to continuously sound until it is reset with a key or the unit can be set in a 3 to 5-minute auto reset mode. The alarm runs on a 9-volt DC alkaline battery and features a low battery chirp warning.

The alarm is turned on by rotating the key clockwise to the "On" position until a red indicator light is visible. A slight depression on the push bar activates the alarm circuit to sound the alarm.

To exit without sounding the alarm; rotate the key counter-clockwise to the "Off" position until a green indicator light is visible. Depress the push bar to exit.

To reset the alarm; rotate the key clockwise to the "On" position until a red indicator light is visible. (See illustration C.) Alarm will not sound until the push bar is depressed. Alarm can be reset when the door is either in an open or closed position.

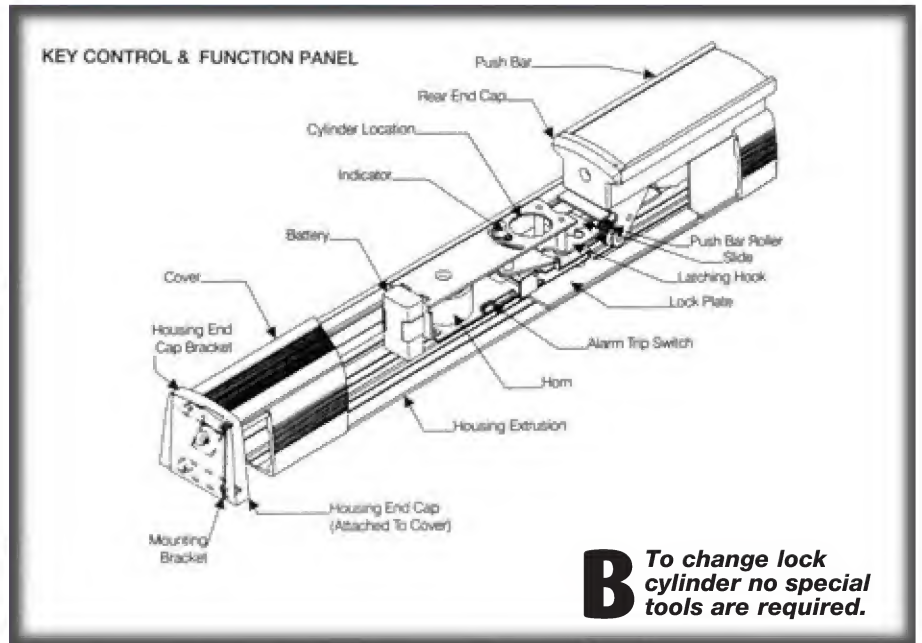
– Changing the Battery –

Battery maintenance is easily accomplished by inserting the key into the cylinder and turning counter-clockwise beyond the green indicator position until a blue indicator is seen. While holding the key in this position, you can slide the alarm extrusion plate toward the end of the device. Release the key to the green position and remove the key (which is not needed to re-install). With the plate removed, replace the 9-volt DC battery and slide the extrusion back into place until it snaps into the locked position.

– Installation –

The first thing to do after removing any old hardware is to make sure the door and hinges are working properly. If everything checks out, measure the width of the door to see if bar needs to be cut down to size. (See photograph 4.) This application did not require the bar to be cut, but if it needed, it can be cut in the field quite easily.

Next measure a height position line which is suggested by manufacturer to be at 40-5/16" from floor. (See photograph 5.) Mark the



door and frame with the door closed tightly in the frame. Tape the manufacturer supplied mounting template to the door and frame as indicated in *photograph 6*. Mark and drill the door per the drilling instructions included. There are #12 sheet metal screws and 12-24 machine screws with sex bolts supplied with the unit.

Note: No outside key control was required on this installation, but a rim cylinder locking plate is supplied with the hardware package.

With the door drilled to accept the 12-24 machine screws and sex bolts (see *photograph 7*), mount the bar and tighten fasteners. (See

photograph 8.) With the bar mounted, slide the alarm extrusion plate on that includes the electronics.

At this point, the only thing left to install is the strike, which is mounted with two 12-24 machine screws. The strike plate included features oval slots for fine adjustments. After the strike is properly adjusted, a third 12-24 screw is installed in the center of the strike to lock it in position. (See *photograph 9*.)

The 1200 series Pannex touchbar rim exit device worked quite well, and with the bright red "Emergency Exit Only Alarm Will Sound" lettering contrasting with the silver anodized finish, it solved our customer's problem. (See *photograph 10*.) This touchbar is also available in a duranodic finish.

We advised the customer to check/test the unit weekly. We then turned over instructions for changing the battery after demonstrating the unit.

There are several different versions of this unit available. Further information is available from:

*Door Controls International
 2362 Bishop Circle East
 Dexter, MI 48130
 Phone: (313) 426-0400
 Fax: (313) 426-0405
 Or Circle #302 on Rapid Reply.*

TNL

C To reset the alarm; rotate the key clockwise to the "On" position until a red indicator light is visible.



8 Mount the bar and tighten fasteners.



9

The only thing left to install is the strike.



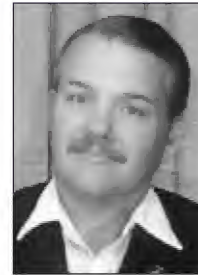
10

The bright red "Emergency Exit Only Alarm Will Sound" eliminated the customer's problem.



BEGINNER'S CORNER

Arrow, M.A.G. & Don-Jo
Make the difference.



by
**Jim
Langston**



1. Arrow M series cylindrical lockset and E series deadbolt, M.A.G. Security Box Strike and Full Lip Strike and a Classic Wrap-Around (not shown) by Don-Jo was used.

We all know that most residential homes and far too many commercial businesses have insufficient door security. How many times have you seen a Grade 3 lock on an exterior door where a Grade 1 or 2 should be? Or a Grade 2 lock where a Grade 1 should be. And how many times have you seen an exterior door where only a cylindrical lockset is present and no deadbolt? If it's been as many times as I have seen it, it's been too many!

In most cases, the owner of such circumstances can't be blamed for the presence of inadequate hardware. They usually don't know. It requires the expertise of someone like you to offer a security solution. I recently had just such a customer that badly needed new door hardware. I told him what I could do and he gladly accepted. Sometimes all it takes to make a sale

while also improving the security of a customer is to offer it.

My partner and I offered to install an Arrow M series cylindrical lockset and E series deadbolt which are both Grade 2 rated locks. I coupled these locks with a M.A.G. Security Box Strike for the deadbolt and a Full Lip Strike for the cylindrical lockset with a Classic Wrap-Around by Don-Jo. This hardware combination is a great security package for residential/light commercial applications. (See photograph 1.)

The old door hardware has been removed and the door and frame is ready to be prepped for the new hardware. (See photograph 2.) This was an exterior wood door and frame that was neglected and offered little in the way of security.

Photograph 3, gives you a view of the Full Lip Strike Plate as it is being installed. Notice in photograph 1, that the Full Lip Strike utilizes six screws for mounting. The four 3-inch screws are for the mounting holes at the edge of the plate and the two 1-inch screws are for the two inside mounting holes. Once installed this is a great security plate that makes kicking in the door a very difficult task.

Next we installed the Classic Wrap-Around by Don-Jo. (See



2. The old door hardware has been removed and the door and frame is ready to be prepped for the new hardware.



3. A view of the M.A.G. Full Lip Strike Plate as it is being installed.



4. Next we installed the Classic Wrap-Around by Don-Jo.

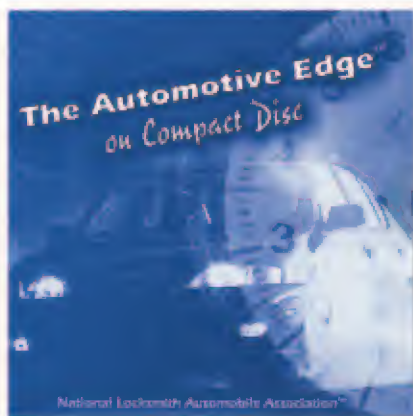
photograph 4.) The Wrap-Around provides extra protection for doors even if they have not been damaged. For doors that are already cracked around the deadbolt/cylindrical lockset area, it is almost necessary to use a Wrap-Around plate.

In photograph 5, you can see the finished installation with the Classic Wrap-Around, Full Lip Strike and Arrow cylindrical lockset installed. The security of the door has already

been greatly increased. It would not be impossible to break-in, but these products will slow someone down and make it much more difficult.

Originally, the only security this door had was the presence of the old cylindrical lockset. This was obviously insufficient, so the door was prepped to accept the Arrow E-series deadbolt. (See photograph 6.)

With the cross bore and edge bore drilled, the deadbolt was installed and the deadbolt assembled for installation. (See photograph 7.) This deadbolt lock features a free spinning outer ring to prevent wrenching. The deadbolt also features a roll pin in the center of the bolt to prevent sawing. The lock is secured to the door with



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#AE - CD



5. The security of the door has already been greatly increased.



6. The door was prepped to accept the Arrow E-series deadbolt.

two concealed 1/4" screws.

The jamb was then prepped for the Security Box Strike. This strike features a steel box that fits into the

jamb to prevent forced entry. Notice the two mounting holes inside of the box two 3-inch screws are used to secure it to the jamb. They will tie into

the stud behind the door jamb for better security. After the box has been installed, a brass faceplate is then put on top of the steel plate and secured

InstaCode




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#IC - 2001

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by Robert Gene Seveling

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#WLR - 1



7. With the cross bore and edge bore drilled, the deadbolt was installed and the deadbolt assembled for installation.



8. After the box has been installed, a brass faceplate is then put on top of the steel plate and secured with two more screws.

with two more screws. (See photograph 8.)

In the end, the appearance and level of security this entrance door will offer is far greater than it once was. All in all, the level of security will depend on the price a customer wants to pay, but it can often be provided for much less than expected. That's because, in most applications, it's the addition of

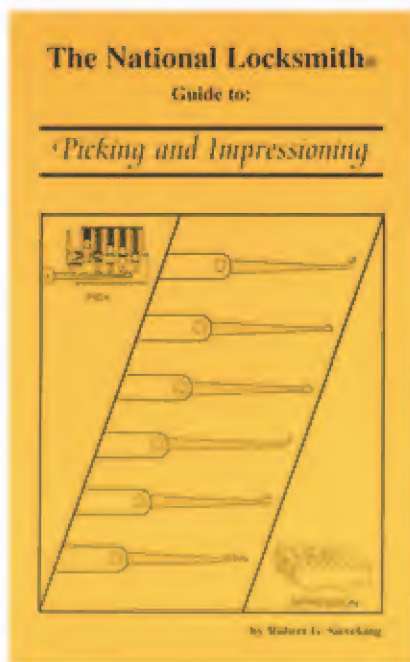
rather inexpensive accessory items like Full Lip Strikes, Wrap-Around Plates, and Box Strikes that will offer a dramatic increase in the level of security.

Point to Ponder:

The bitterness of poor security remains long after the pleasures of low prices are forgotten.

For more information on the companies included call:
Arrow Architectural Hardware
800-221-6529;
M.A.G. Engineering and
Manufacturing Co., Inc.
800-624-9942;
Don-Jo Manufacturing Inc.,
800-628-8389.

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#PI

Road Rally

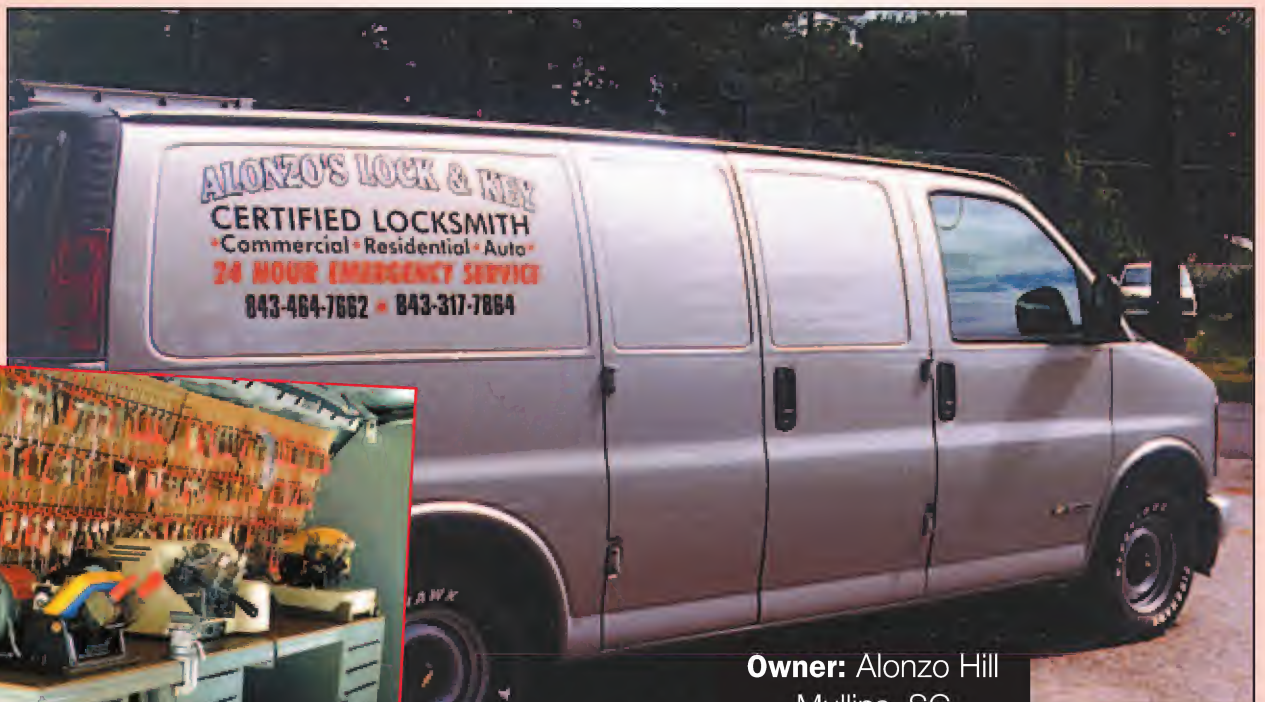
A showcase of locksmith service vehicles.

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Baldwin Park, CA

Model:
1968 Dodge Van



Owner: Alonzo Hill
Mullins, SC

Model:
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Quick Entry

UPDATE

by
Steve
Young



1999 FORD WINDSTAR

For 1999, Ford has made its biggest commitment yet to transponder based security systems. Beginning this year, all Ford passenger vehicles, with only two exceptions, will be equipped with the PATS II security system. The two exceptions are the "Super Duty" trucks — the F-250, F-350, F-450 and F-550 plus the full sized vans. This means to generate a key for almost any 1999 Ford you will have to have the "New Generation Star" (NGS) tester. Duplicate keys can be programmed into the system without an NGS tester, but only if you have two different preprogrammed keys available before you start.

The all-new 1999 Ford Windstar may look a lot like the 1998 model, but it is very different inside. (See *photograph 1.*) Ford is very proud of this vehicle and is promoting it as the ultimate family vehicle. Safety is one of their big concerns, and they are proud of the Windstar because it is the only minivan to earn five stars in government crash tests four years in a row. (This is the highest government frontal crash test rating for the driver and front passenger.) The 1999 Windstar also offers seatback mounted side impact airbags as optional equipment in addition to all of the standard safety features.

The overall tight fit of all door components makes this vehicle a bit of a challenge to unlock. If you try to wedge open the door cavity in the traditional manner, you will have a very hard time getting your tool into the door. Fortunately, there is a



1. The 1999
Ford Windstar.



2. The plastic catch
that holds the trim
strip in place.



3. Use a wooden
wedge to gently free
the rear end of the
trim strip.

4. Carefully lift the
rear of the trim strip
and then slide it out
from below the rear
view mirror.

simple and effective way to gain access to the interior of the door.

The trim strip along the bottom of the window can be easily removed and replaced without damaging the vehicle or the weather-stripping. The strip is held in place by a small plastic clip at the rear end of the strip. (See

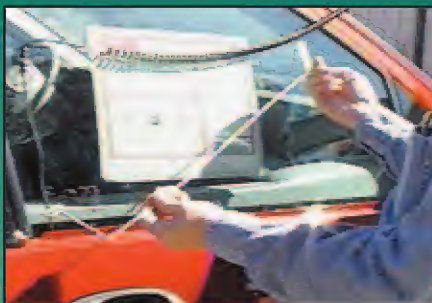
photograph 2.) To remove the weather-stripping, gently prying beneath the rear end of the strip with a wooden wedge. (See *photograph 3.*) I like to use a wooden wedge to eliminate the possibility of scratching the paint. Once the clip has been released, all you have to do is lift the

strip free of the door and slide it out from underneath the rear view mirror assembly. (See photograph 4.)

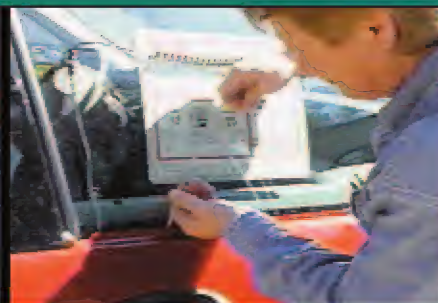
Once the strip has been removed, there is ample room for an inspection light and opening tool. (See photograph 5.) With an inspection light inserted in the door, you should be able to see the light colored plastic connector at the base of the inside lock control linkage rod. This connector attaches the linkage rod to the latch bellcrank. Insert the long end of the TT-1008 tool (see illustration A) into the door and hook the tip of the tool beneath the plastic connector. Pulling up on the tool will lift the bellcrank and unlock the door. (See photograph 6.)

One note of caution on this vehicle. The bottom of the window glass extends further into the door than on most vehicles. Do not attempt to open the '99 Windstar with the TT-1017 tool. The tip of the tool does not extend far enough to clear the base of the window, and it would be very easy to break a window while trying to use this tool.

TNL

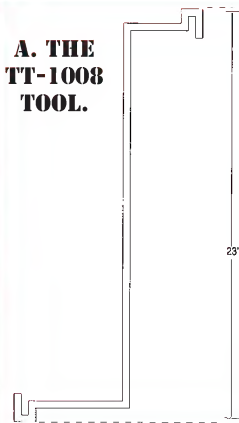


5. Use the long end of the TT-1008 tool to lift the base of the inside lock control linkage rod.



6. The tip of the tool lifting the inside lock control bellcrank.

A. THE TT-1008 TOOL.



Quick Reference Guide

Vehicle: 1999 Ford Windstar

Direction Of Turn: (Passenger side) Clockwise

Tool: TT-1008 (Long end)

Lock System: 8-cut Ford, sidebar ignition and plate tumbler (wafer) style door locks

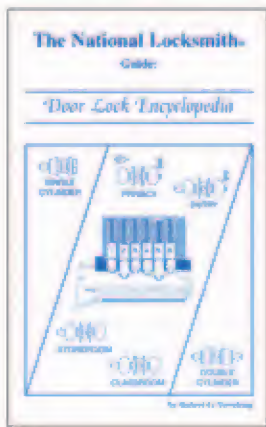
Security System: Pats II (Transponder)

Code Series: 001X-1706X

Key Blank: Strattec 597603. Ilco H72-Pt

Bitings: Ignition 2-8, Doors 1-6

Door Lock Encyclopedia

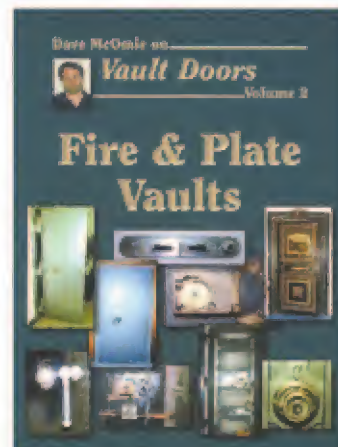
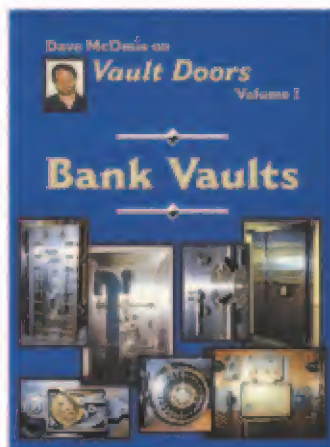


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#DLE

Dave McOmie on Vault Doors Vol. 1 & 2



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#VD - 1, VD - 2

TECHNITIPS

YEAR-END PRIZES



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Silca Bravo Duplicator



1st Prize

*HPC's 1200PCH
Punch Machine*



2nd Prize

*Mas Hamilton's Auditcon
2100 & Certification Class*



3rd Prize

Curtis 2100 Duplicator



4th Prize

*SDC Magnetic Lock, Keypad
and Exit Switch*



5th Prize

*LaGard "Smart
Guard"®*



6th Prize

\$500 in All Lock Products



7th Prize

*\$500 in ASP
Auto Locks*



8th Prize

*\$500 in Strattec Auto
Products*



9th Prize

*Arrow Exit Device and
Mounting Kit*



10th Prize

Dewalt Cordless Drill



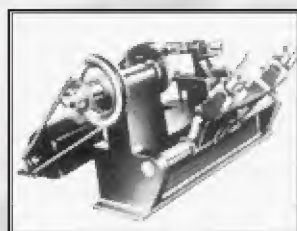
11th Prize

*Detex ECL-8010W
Wetlock®*



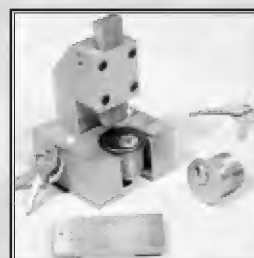
12th Prize

*Securitron DK-26 Touchpad
and CPU Board for
Magnetic Lock*



13th Prize

*Foley-Belsaw 200
Key Machine*



14th Prize

*Accu-Mark™ Key
Stamping Machine*



15th Prize

*S&G 6120
Electronic Safe Lock*

These Prizes Awarded Each Month!

- | | |
|---|--|
| <ul style="list-style-type: none"> • BWD Automotive Ford or GM KwiKit • Aero Lock Tryout Key Set • Strattec Racing Jacket • HPC Air Wedge™ • Sargent And Greenleaf 4400 Series Safe Deposit Box Lock • A-1 Security Products • ILCO Key Blanks (100 Blanks) • Keedex "SPIN OUT" Screwdriver | <ul style="list-style-type: none"> • Tech Train Training Video • Sieveking Products Gm E-Z Wheel Puller • Major Manufacturing Products • Slide Lock's "Z" Tool Opening Set • The Sieveking Auto Key Guide • Jet Key Blanks (100 Blanks) • High Tech Tools • LaGard Combo Guard |
|---|--|

Send in your tips, and win!

How To Enter

Simply send in your tip about how to do any aspect of locksmithing. Certainly, you have a favorite way of doing things that you'd like to share with other locksmiths. Write your tip down and send it to:

Jake Jakubowski, Technitips Editor,
The National Locksmith,
 1533 Burgundy Parkway, Streamwood,
 IL 60107-1861 or send your tips via
 E-mail to: Natlock@aol.com

Every Tip Published Wins

If your tip is published you will win one of the monthly prizes listed. At the end of the year, we choose winners from all the monthly tips published, that will be awarded one of the fabulous year end prizes. All you have to do to win is enter.

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Prizes are arranged according to suggested retail price value.



16th Prize
 High Tech Tools
 2500 Pro Set



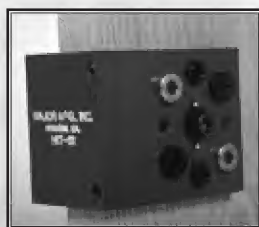
17th Prize
 Slide Lock's
 Master "Z" Tool Set



18th Prize
 ESP Products Sampler



19th Prize
 Baxter JV-1 and
 JV-5 Code Books



20th Prize
 Major Manufacturing's
 HIT-111 Drill Guide



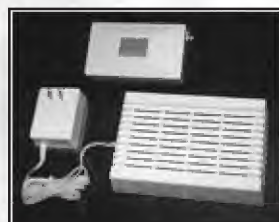
21st Prize
 Falle Pick Set From Mark
 Bates Associates



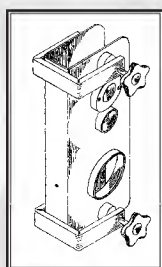
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 Sieveking Products
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23rd Prize
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 Padlock Display



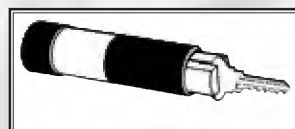
24th Prize
 Rodan's AV 100 Heavy
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26th Prize
 M.A.G. Engineering
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27th Prize
 Framon Impressioning
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The 15 Minute Safe Opening Technique

28th Prize

Book — 15 Minute
 Safe Opening
 Technique by Jake
 Jakubowski



**BWD KwiKit Winner:
GM Ignition Lockout**

On certain 1997 GM cars, Cavilers, Monte Carlos, and N body, (there is a dealer list of the affected VIN's) can have the ignition lock suddenly refuse to turn to the "ON" position. There is a TSB (Technical Service Bulletin) at GM dealers regarding this problem.

The problem occurs when the 2nd cut from the bow is a 3 or 4 depth. For some reason the sidebar binds on the old-style wafers and will not allow the plug to turn. If you have one of these in the field, and cannot get it to turn, drop the lower shroud and you can see the brass retainer, on the bottom that retains the sidebar. I have taken a large paperclip, put a 1/4" right angle bend in the end, and was able to press the sidebar back down enough to get the key to turn. Then you can pull the plug out as normal.

The wafers that cause the problem have been replaced with a new design (Strattec Part # 322521 through 524). They were modified and use the same part numbers as the originals. The difference is on the top side where the spring sits: it's deeper in the new version. If the lock is not too badly worn inside, you can just replace the old wafers with the new design wafers and reuse.

Dealer price on this lock, in my area, is \$138 PLUS installation. Price accordingly.

*John Homung
Missouri*



**Aero Lock Try-Out Key
Set Winner:
V.A.T.S. Without
Codes Made Easier**

To produce a V.A.T.S. key without pulling the wires through the column, first tear down the column in the normal fashion until the V.A.T.S. ignition switch is ready to be removed. Pull the wire retainer clip out from the socket in the column and extend the ignition switch as far as the wiring will allow.

Note the band or collar extending down from the ear/cap about 1/2". Two dimples or stakings hold the collar in place. Under the wider of the two ears (the ear normally facing down when the ignition is in the column) is a slot extending back under the cap. Using a small flat bladed screwdriver, reach into the slot under the ear and pry downward on the collar. When the collar begins to

Jake's Tip of the Month...

Interchangeable Core Retainer Cap Substitution:

Best, KSP, Arrow, KeyMark and other interchangeable core systems can present you with enough challenges without running out of Best style retaining caps right in the middle of a large - or small - job. If that should happen to you, simply use a standard (.015 diameter) top pin about .025-.035 thick. I find they make a fair substitution.

See y'all next month!



*by Jake
Jakubowski*

loosen, work around the cap gently prying down the collar until it's completely off the cap assembly. Slide the collar down the body of the lock and let hang on the wires.

The cap assembly you just exposed is held in place by snap-lock tabs, one on either side of the body. Gently pry the tabs loose and pulling up on the ears remove the cap wiring assembly and let it hang from the column.

You now have the body of the lock in your hands and can make a mechanical key without pulling wires through the column. Or you can replace the lock body with the one you already have prepared with a mechanical key.

Reassemble the lock to the cap assembly (it will only go back together one way, as will be obvious when you look at it), and install the lock. Proceed with the normal V.A.T.S. interrogation.

This procedure will reduce the time it takes to make a V.A.T.S. key without codes, (once you get the hang of it, it will take less than sixty seconds to accomplish) and will allow for several other options as well, such as: replacement of the lock due to mechanical failure or removal for rekeying.

As you may have noticed, the used car market is putting more of these V.A.T.S. equipped cars on the road, and we will be seeing more requests for V.A.T.S. keys. More of these locks will fail as these vehicles age.

*Larry C. Silverwood,
Nevada*



**Strattec Winner:
Getting Past the
Airbag**

Here's a tip regarding late model GM's with VATS/Airbags (Monte Carlo, Lumina Grand Prix, etc.). Removal of the airbag is required to service the ignition on these vehicles. Such

service can be difficult when the steering wheel is in a position blocking access to the Torx screws retaining the bag. However, A 90° Torx driver is available to overcome this problem, however, I have found that on occasion the tool is sometimes difficult and time consuming to maneuver into position.

After following all airbag service procedures regarding removal, I can gently pry the shroud over the turn signal assembly far enough to the side to allow me access to the lock plate and lock bolt. This particular shroud is between the steering wheel and just above the turn signal lever on the left side of the column and is not designed to be completely removed.

By looking into the opening (from the left side of column) with a light and a long screwdriver or probe, depress the lock bolt and rotate the steering wheel to a more desirable position. Caution must be used to not pry against the airbag coil assembly. After rotating the wheel the shroud can be snapped back into place and the airbag retainer Torx screws can be easily and quickly removed.

*Kurt Stewed
Wisconsin*



**HPC Air Wedge™
Winner:**

Code Your Work

This tip is good for locksmiths that do a lot of car work. When you take the steering column lock or a door lock with a code stamped on it, record the code on paper and file it, along with the customer's name, etc. Then scribe your own personal codes and along with the vehicle's serial number write it on a sticker and place it in the glove compartment.

The next time you have to make key for the same serial number you just look in the glove box or check your records of serial numbers for your own codes before taking the

steering lock or door apart. Now I even put my own codes on all the new locks I install and give the customer a business card for future reference should they loose their car keys or need other work done.

*Serrurier Jacques, Inc
Canada*



*Sargent & Greenleaf
Winner:*

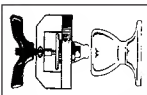
GSA Finishing Tip

Here is my method for repainting a GSA container to achieve the proper wrinkle texture and color. First I sand and primer as needed. For the color gray I use "Smoke Gray," it matches Mosler gray and is only \$3.00 a 12oz. can, instead of \$8.00 for a small can of original paint from Mosler.

Apply a very light coat on drawer and let it dry completely. Apply a moderate to almost heavy coat (lid up) and let dry until tacky. While tacky apply a light coat of clear coat. Let dry completely. Finish with another layer of light clear coat and, voila! You can't tell the difference from a factory finish.

By the way, bondo is not DOD approved on red label GSA containers for filling drilled holes.

Mike Prince



California

*A-1 Security Products
Winner:*

Securing Security Screws

When a customer insists on putting fixed window security bars on the outside of a building, I use 3-1/2" long Robertson screws and fill the hole on the screw with a No.2 lead shot. That same kind of shot is found in shotgun shells. Just pound a pellet into each security screw and it keeps anyone (even with the proper tool) from removing the screw without a lot of trouble. It's not exactly a foolproof security method, but it does work.

*Ray Betemps
Canada*



*Ilco Key Blanks (100)
Winner:*

Calipers Make Adjustable Turing Wrench

Illustration 1, shows how I modified a small pair of inside calipers to function as an adjustable tension and turning tool for lock picking. It works great.

*R. G. Visvader
Wisconsin*



*Keedex Winner:
Taping a Solution*

I had one of those
brainstorms the other day

while attempting to reconnect linkage in a safe. There was a pair of washers to be placed between two moving linkages, but there was certainly not enough room for my fat fingers to hold them and get the bolt in all at the same time. After several tense moments and wondering how I was going to

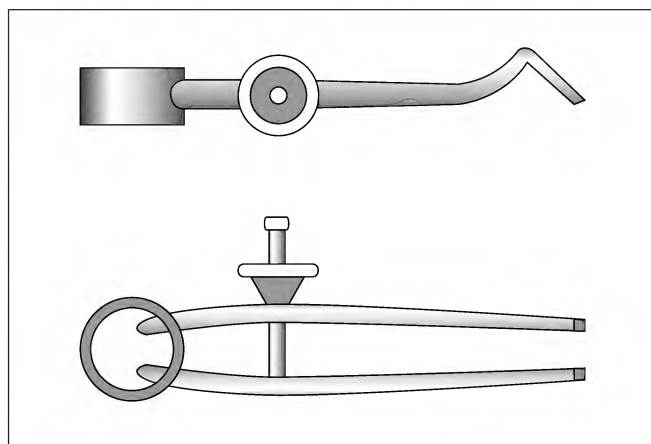
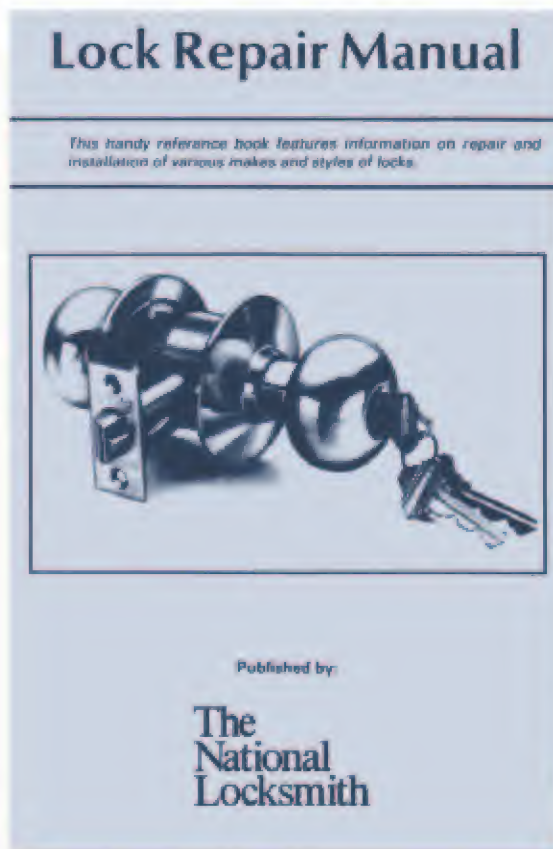


Illustration 1.

Lock Repair Manual



Here, under one cover you have a tremendous amount of lock servicing information. Next time you run into a problem chances are you'll find the answer in the Lock Repair Manual.

CLICK HERE TO LEARN MORE



#LRM - 1

reassemble this unit, my electrical tape caught my attention. I took a piece of tape about 4" long and applied the tape to the edge of one washer and then folded the tape down over itself and onto the other washer.

I could then drop the washers down behind the first linkage and hold them in place long enough to get the bolt started. Once the bolt was started a little tug on the tape released it and away I go to the next connection.

Gary Tibbetts
Maine



Tech-Train Training
Video Winner:
**Electric Trunk
Opening**

I keep a cigarette adapter plug with only the hot wire connected to use as a tester. I just plug in the adapter and connect it to the trunk switch. If I'm on the wrong side of the switch, nothing happens. If I'm on the right side and the lighter is hot, the trunk will pop open.

If the cigarette lighter is dead, I just run a jumper from the fuse box, glove box light or dome light to the trunk switch and push the button. Both

ways use the vehicle as its own ground. I would only need ground if using power from another vehicle.

Bill Lehman
Oklahoma

Editor's Note: Bill, you need to be very careful when trying to jump the trunk switch on many of the later model autos. I have a friend that tried that trick on a '95 Seville and wound up paying a healthy repair bill when he blew a circuit in the car. Most often, if the ignition is off, there is no current to the cigar lighter and jumping from the dome light, glove box light or fuse block can cause unexpected and sometimes severe damage to the electrical system. Be very selective which vehicles you try this on and be very careful of where you bring the jumper from since various circuits use different voltages to operate.



Sieveling Products GM
E-Z Wheel Puller
Winner:
Transponder Tip

Yesterday I received my first call for a Ford Taurus with a transponder. A customer called stating he had a broken key. Here's how I successfully got the customer back on the road, in very short order.

I discovered that if you duplicate the broken key on a plain 8-cut blank that you can start the car by holding the head of the broken transponder key next to the plain 8-cut key. Essentially, you are fooling the car into thinking you are using the original transponder key.

Using this method, you can turn the car on then off then within 15 seconds of turning car off insert the new transponder key and turn to the on position. This will program the car to accept the new transponder key without the waiting time required to reprogram the car if you have no key at all.

Charles Eastwood
Louisiana

Major
MANUFACTURING, INC.

Major
Manufacturing
Products Winner:

Shimming Difficult Cylinders

While trying to shim some cylinders, I find that I get so far and then the shim bends or refuses to continue. In frustration I would pull the shim out and start over. One day on a six pin Sargent cylinder, I could shim the back four pins, but then could not get the front two.

After starting over for the fourth

IC Cores: Small Format



Everything you ever need to know about
how to sell, service, install and
troubleshoot interchangeable cores!

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#ICSF - 1

time it finally hit me. I already defeated the majority of the pins and it would be a cinch to pick the front two pins. It was a real snap and saved me time and frustration. Now I keep a pick next to my shims and if I start to have a problem the pick finishes the job quickly.

*Eugene Prestwich
Arizona*



*Slide Lock's "Z" Tool
Opening Set Winner:
Slim Jim's Still Useful*

Upon arrival at the scene of a locked 1998 Ford Expedition with the keys locked inside - along with a baby and two dogs - my task of opening the vehicle began. The weather-stripping was so tight I couldn't get a wedge in. Although many may frown upon using a Slim Jim, they still work well in many situations.

I used two Slim Jims to do the job, one bent with the end toward the outside of the passenger door and the other bent toward the inside of the door. I first used the outward bend to bypass the security ledge. Its main purpose was a guide for the second Slim Jim. Once past the ledge, I removed the first Slim Jim and used the second, (the inward bent one) to reach the lock mechanism. I had the vehicle open within ten seconds.

*Marvin Wallace
Oregon*



*The Sieveking Auto Key
Guide Winner:
Pickin' A Nova*

I was called the other day to make a set of keys for a 1987 Chevrolet Nova which should have been a piece of cake. After arriving at the job I retrieved the code from the passenger door lock and cut a key for the doors and deck with no problem. Next I removed the plastic shroud from around the steering column to remove the ignition. To remove this ignition, the switch must be turned to the "ACC" position. I began picking the ignition with conventional picks like I have so many times before with no problems. Today however, was a different story. The ignition would not pick. Then I tried to impression the ignition. That didn't work either.

By this time I was a little frustrated to say the least. While sitting there

gathering my thoughts and trying to clear my head, I happened to look down in my toolbox and saw my A-1 GM 10-cut ignition picks. I grabbed the picks and with a conventional turning tool had the ignition turned to the "ACC" position and removed in less than 15 seconds.

*James E. Williams, Jr.
Georgia*



*Jet Key Blanks Winner:
Punch 'N' File*

A used car dealer called me to make keys for a Geo Storm. When I got there they explained that a previous locksmith had tried, but could only get a key to work the passenger door and ignition locks. Since there was no working key, I decided to pull the passenger door panel. I retrieved the code, cut a key on my I200 PCH and it worked! But only on the passenger door and ignition.

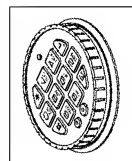
Looking carefully at the key I noticed it had a #2 cut next to a #4 and that the cut had no flat, there was only a peak! I realized I had used the PCH-1011 punch instead of the required PCH-47 punch. The PCH-47 punch has a different angle than the 1011. Unfortunately, I did not have one. Instead I punched the #4 cuts as #3 and filed the rest by hand, being careful to keep a pretty steep angle. The key worked liked a charm in all the locks, and I had won a new customer. Since then I have successfully applied the technique to other vehicles that require a PCH-47 without any problems.

*Adrian Slater
Virginia*

Editor's Note: Adrian, the PCH 1011 has an angle of 90° and a flat of .048. The PCH has an angle of 84° and a flat of .038. Consequently when you use the 1011 you are cutting shallower and wider depths than you would with the PCH 47. I realize you are "finishing" the depth by hand filing, but are you also lowering the angle of the ramps? I'm concerned that you might be setting yourself up for a future problem when one of the keys you originate this way traps or bends a wafer and you wind up having to pull the ignition, etc. Also, since the key you originated is not within manufacturer's specs, what happens when the customer takes a marginally generated key in for duplication? Although I recognize that in the field we all have to "make do" at times, but I strongly recommend that your

method be used only as a last resort.

*LaGard Winner:
**Glow-In-The-Dark
Tools***



Being somewhat new to locksmithing, every chance of help I can get I try to take advantage of.

I have two tips that have helped me with car openings. First, I use a set of High Tech tools and even with a light I have difficulty judging placement and depth perception. I obtained some phosphorescent paint from a local craft and hobby shop and painted the tips of my tools. Now, they glow in the dark and are much easier to follow and place in the right position. I covered the paint with clear box tape to protect it from scraping off.

A second tip is that I have started collecting tech tips in a binder. I start by cutting out the articles with car information from *The National Locksmith* and place them in clear page protectors. All are labeled by make of the car. I then insert blank pages behind each. Now every time I come across a tip, be it from your magazine, the Internet or another source, I right it down on the blank page with the appropriate make of car. I have created an invaluable source of alternative methods to open cars.

*David Foppiano
Kentucky*

Editor's Note: David, welcome to the trade! I've said it before and I'll say it again, I don't care whether you're new to the trade or have grown old practicing it, we all have something to share. Thanks for the great tips and keep them coming!

*High Tech Tools
Winner:
**Key Rings on
Demand***



If you go through a lot of key rings as I do, find a large magnet and stick it to anything in your truck that's metal. Then load on all the rings you can.

Now you don't have to open anything or search to get a ring for a job because they're hanging around. This has made many of my jobs a lot easier and less frustrating

*John Irvine
Montana*

TNL

The **WIGHTER** Side

"Shazam!"



by
**Sara
Probasco**

"I've got a lockout at Nations Bank. Keys in the ignition," I called out as I hung up the telephone receiver. "Your call, Keith. It's a '93 Pontiac Bonneville, blue, in the east parking lot."

"Have they called in for the codes?" Keith asked.

"Not yet. It's an older lady. She didn't seem to understand VINs. You'd have to deliver the key anyhow, she has no transportation to our store, so you might as well go on over there and walk her through the phone call. I'll contact you when the codes come in."

We followed all the right procedures: the lady called her VIN to Pontiac according to Keith's instructions, Pontiac called me at the store with the code number, I called Keith on his cellular phone with that information, he cut the key by the code number supplied. The only problem was, the key didn't work.

Keith cut another key. Still no go. He called me to verify the code number, then had the customer call Pontiac again and go through the cycle of information once more. Nothing changed.

Witnessing all this, Rickie said, "No sweat. I can get in that one," and he confidently went to Keith's aid.

Time passed. Don took a call down the street from Nations Bank and decided to swing by there on his way back, to see what was going on. Frustrated, Rickie and Keith were huddled over the driver's door of the lady's vehicle, trying to get it open. Nothing seemed to be working.

"How's it going?" Don asked the men quietly.

"I can't figure out what's wrong," Rickie admitted.

"We've tried all the right moves, and nothing works the way it should."

"How come you're working on the driver's door, instead of the passenger's?" Don asked. We encourage our guys to open the passenger's door whenever possible, as it usually shows less wear-and-tear.

"She says the passenger door won't work," Rickie replied.

"Oh?" Don ambled over to the customer. "Tell me what's wrong with the passenger door?" he asked.

"I don't know," she admitted. "The electric lock locks all right, but it won't unlock."

"Hmmm," Don mused. Using his handy-Jim-dandy examining light, he peered down into the door. "Aha!" he breathed softly. "You guys can go on back to the store," he called to Keith and Rickie. "I'll finish up here."

When they had driven away, Don went back to his van and retrieved one

of his custom-made tools. This particular tool was one he'd made from an old dog-tooth tool. He had modified it by re-bending the lower end to offset it to the left. It was a tool he didn't use often, but occasionally, nothing else would do the job. Peering inside the door again, he inserted his tool just so, and promptly unlocked the vehicle.

"Wonderful!" the lady exclaimed.

Don smiled and handed her one of our "get a free key" cards. "Be sure to come by our store and have a free spare key made," he said.

"When are you there? The other men can't seem to make a key for this car," she replied.

"Sometimes we get bad key-code numbers from the automotive companies. We can only guarantee that a key by code is made to the code numbers provided. However, making a working duplicate of your key is no problem. Any of our people can do that for you, while you wait. There's just one thing I'd like to ask of you," Don added. "When you come in, one of the guys is bound to ask you what I did to get your vehicle open."

"What should I tell them?" she asked, a bit puzzled.

"Just say it was magic," Don replied, a mischievous twinkle in his eye.

The lady laughed, then hugged Don around the neck and kissed him on the cheek.

"I'll tell them I hugged your neck and you shouted, 'Shazam!' and it just opened right up," she said. "And that's not far from wrong, I might add."

When Don returned to the store, Keith and Rickie were surprised to see him back so soon.



“What happened, did you give up already?” Keith goaded.

“Nope, I got it right open. I don’t know what all the fuss was about,” Don replied.

“You’re kidding!” Rickie chimed in. “We tried everything. How did you do it?”

“Do you remember that old modified dog-tooth tool I showed you, the one I suggested you both duplicate for your service vans?”

Rickie blushed. “You mean the one you said might come in handy, sometime, when nothing else seemed to work?”

“That’s the one,” Don replied. “How come you didn’t try that one on her door?”

Keith glanced sideways at Rickie. Rickie watched a fly crawl across the ceiling. Don waited patiently for an answer. The silence deepened.

Finally, Keith said, “I guess, because we never got around to making one for ourselves?”

“So, what are you planning to do this afternoon?” Don asked.

“Make ourselves one of those tools for our vans?” Keith asked.

“Good choice” Don quipped.

“Just one thing,” Rickie injected. “How did you know that tool would work in this situation? I mean, surely there’s more to unlocking that vehicle than a make-shift tool.”

“Well,” Don said, “It helps to know a little legerdemain.”

“What’s that?” Rickie asked.

“Just another name for stage magic!”

“Oh, come on, Don,” Keith chimed in. “I know you tell the customers that from time to time, but level with us. How did you really get the door unlocked with that tool?”

“Make your own tool, and I’ll show you,” Don said. Then his eyes twinkled again as he wiped a smudge of the lady’s lipstick from his cheek.

“Never under estimate the power of a good ‘Shazam!’”

TNL

A NOTE FROM TOM

(the Circulation Manager)

I don’t want **you** to be left out... but sometimes we do run out of back issues.

Please be sure to send in your **Renewal Payment** on time and your **Change of Address** at least 4 weeks in advance. Then you won’t be the one receiving a note saying, “Sorry, we ran out.”

Send your name, old address and new address to:

The National Locksmith
Address Change Dept.
1533 Burgundy Pkwy.
Streamwood, IL 60107.



Dave McOmie NSO & Article Collection on CD

This CD contains every NSO newsletter and McOmie File Dave has ever published.

CLICK HERE TO LEARN MORE



#DMCD - 2

THRU THE KEYHOLE

A Peek at Movers & Shakers in the Industry

ATTENTION MANUFACTURERS AND DISTRIBUTORS:

Would you like your company and products to be profiled in *Thru The Keyhole*? Please call Editor, Greg Mango, at (630) 837-2044.

American Security Is Back!

A new management team is in place at American Security Distribution which was acquired by an investment group early this year.

Tapped to head the company is Kenneth C. Cleveland, who becomes American's chief executive officer. Also on the team are current managers Dennis H. Jenkins, vice president of sales and marketing and Raymond E. Pickering, chief operations officer. The new team takes over from Chairman Sean DeForrest and his family, who founded American in 1964.

The company will operate with its four core warehouses in Seattle, Sacramento, Phoenix, and Anaheim,

California, where their corporate headquarters is also located. A new Chicago facility will open in March.

American Security Distribution's main focus continues to be service-oriented locksmiths specializing in commercial and industrial work. The company also plans to pursue the access control and CCTV markets with a greater focus and investment in resources. The company currently carries over 70 product lines and is rapidly adding to its \$6.5MM inventory in all locations.

American's new team plans to continue offering volume based buying programs and expanding value added services. A new electronic order processing system combining features of the current CAP Express,

American Security Distribution

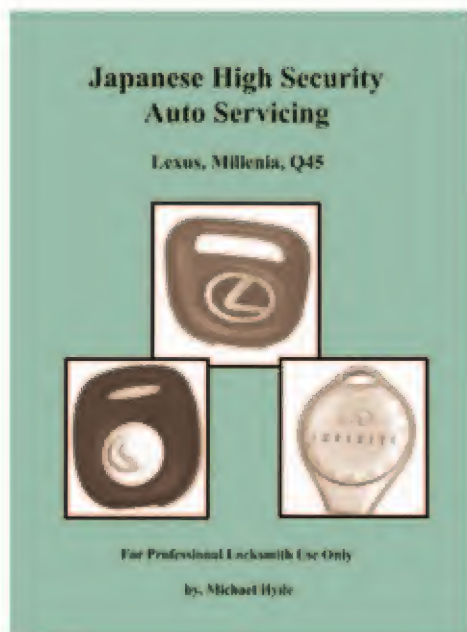
Price Check, Star Express and CD-ROM catalog will be introduced at the 27th annual American Educational Conference and Trade Show, April 20-24 at the Disneyland Hotel.

American will expand its current outside sales organization and has implemented five regional customer support teams to better serve customers.

American Security Distribution can be reached at 800-854-8775.

The company's web address is www.amsecurity.com.

*Circle #277 on Rapid Reply Card. **TNL***



Japanese High Security

Some of the most profitable cars are also the trickiest to work on.

CLICK HERE TO LEARN MORE

#JAP - 1



by Daniel A. Kern

The Arm-A-Dor is a panic hardware device providing push bar security for exit-only back doors. Arm-A-Dor is an effective replacement for previously tried rear-door security devices including drop bars, slide bolts, chains and padlocks. (See photograph 1.) Made of 12-gauge telescopic steel tubing, Arm-A-Dor is the only back-door lock combining the security of a metal drop-bar with an easy-exit panic push-bar for life-threatening situations. UL-listed Arm-A-Dor meets the life-safety

codes of the National Fire Protection Association (NFPA) enforced by fire marshals and building inspectors and provides 24-hour in-code protection.

Arm-A-Dor operates and opens simply by pushing on, or leaning into the device. In case of an emergency, Arm-A-Dor provides a single motion egress without special knowledge. Arm-A-Dor can't be unlocked from the outside, and can be automatically or manually latched upon closing.

Arm-A-Dor is bolted through the door with Grade 5 carriage bolts and hardened steel sleeves, and has a 1-1/2-inch steel bar extending over both sides of the interior door frame.

Arm-A-Dor offers water-resistant alarm and automatic re-locking options and comes with a five-year manufacturer's warranty. Standard model installation takes about an hour and attaches to almost any existing rear-exit door. Arm-A-Dor can be installed on either left or right-hinged doors from 36-inches to 48-inches in width.

Listed below are some of the features Arm-A-Dor offers:

- Manual Relock
- Automatic Relock
- With or without alarm unit
- Door widths from 2' - 4'
- Fits Jambs to 6-3/4" (standard packaging)
- Low profile kits allow installation on jambs from 6-3/4" - 12-3/4"
- Low profile mortise strike boxes
- Adaptable to fit wood jambs
- Double door kits are also available
- Optional contacts for external alarms available.
- 5 year warrantee

In my opinion, these devices utilized in such areas as commercial and industrial emergency exits doors are certainly far superior when compared to pre-existing drop bars and Pullman latch type exit devices. Just with the plain fact of physics and design these devices are superb against attacks and high frequency usage and should surpass existing acceptance standards by far for durability.

This unit is heavy duty, 25 pounds worth of steel and mechanisms. The installation is rather simple, the hardware is shipped with a variety of nuts, bolts, brackets, even batteries to adapt to your installation and no modifications or additional material should be required; with the exception of a 1-1/8" mortise cylinder that you supply. The mortise cylinder only arms and disarms the alarm unit. These devices come available in either alarmed or unalarmed.

Another option is automatic locking or manual relocking. If

Ask Dave



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#AD - 1

ARM-A-DOR MODELS

Product	Description	Alarm	Fits Door Widths	Fits Jambs to	Finish
A101-001	Auto Relock	NO	2'-4'	6-3/4"	US28
A101-002	Auto Relock	YES	2'-4'	6-3/4"	US28
A102-001	Manual lock	NO	2'-4'	6-3/4"	US28
A102-002	Manual lock	YES	2'-4'	6-3/4"	US28
A104-001	Low profile	NO	2'-4'	12-3/4"	US28
A106-001	Double door	N/A	N/A	6-3/4"	US28
A106-002	Double door	N/A	N/A	12-3/4"	US28

you have an automatic relocking device the alarmed unit has the capability of reminding you to re-arm the unit after the door is either used or opened. For example, if the door is a receiving door and you want to leave it open for 30-minutes, you move a jumper internally on the circuit board allowing the "reminder circuit" to not continue beeping while door is in use. Once the time has elapsed the device goes through a reminder phase by beeping, signaling the user to re-arm the unit. These cycles are a series of beeps, which sounds the alarms twice in a 5-minute period then shuts itself off. The alarmed unit also has the low battery feature and is recommended for annual replacement.

One of the first items covered in the installation directions is to insure the frame and door are with in satisfactory condition. This may also be another overlooked avenue of additional income. Having a secure frame and door is the utmost of importance. Once this device is installed properly and a vandal attempts breaking or prying the



1. The Arm-A-Dor is the solution for any back door security problem.


door, the sense of defeat should be realized quickly and continued efforts should only prove to be futile.

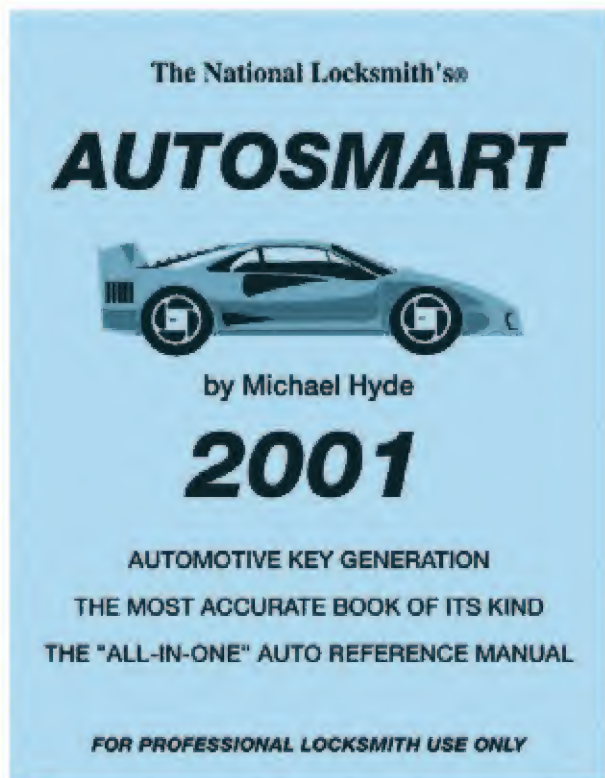
Some of the bells and whistles the Arm-A-Dor offers and compliances it meets are:

- Code compliance
- UL 305 Panic device rating
- NFPA 101 Life Safety Code
- UBC / BOCA
- ANSI 156.3
- Loud alarm 95db @ 10' two piezo horns

- Tamper resistant
- Non handed
- Weather and water resistant

This unit should be the answer for that door you know of where the manager/owner refuses to put an exit device because of the mistrust in a single point latch bolt.

For more information on the Arm-A-Dor contact Sargent & Greenleaf at: (606) 885-9411. Or circle number 303 on Rapid Reply. 



AutoSmart

A MUST
for every
locksmith!



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MY YEAR IN REVIEW



When a New Year comes it gives us all a fresh start, but it's often a good idea to look back upon the year that has just ended [that would be 1998 for most of us], to see what can be learned from the events that have transpired. Personally, I'm still trying to figure out what it is that can be learned from my year, as described below which is all true, with only slight embellishment.

January 12

Pick up hot stock-tip on Internet. I buy it and watch it go down like a Lear jet that has been tuned up by Dr. Kervorkian. Lose \$3,000.00!

February 3

Work extra hard in locksmith business to earn back \$3000.00.

I then install a toilet wax seal incorrectly in my bathroom; it overflows and floods living room carpeting. As my wife approaches me to discuss the situation, I try to think of a tactful way to tell her she looks unattractive with a carving knife in her hand and a crazed look in her eye. I point out that the carpeting was old and worn, and that the insurance would probably cover it.

She finally calms down and sloshes into the kitchen for a stiff drink. I cancel the 911 call.

March 1

This marks the beginning of the fourth straight month of El Nino rain on the West Coast.

A plant resembling sea kelp begins growing in my front yard.

Daughter's goldfish acting strangely aggressive, as if expecting to take over soon.

Water bill still goes up. How does that work?

When I ask the roofing company how much it is going to cost to fix my roof, the man says, "How much do you have? Counting your retirement money and any college funds you may have!"

March 15

Subscribe to a newsletter of well-known financial adviser for \$185.00 a year. I then invest in his most conservative stock picks. I immediately lose \$4,000.00

March 20

My employee of seven years quits. He says, "I'm just burnt out. I'm tired of late night calls, difficult situations and your dopey rules, like not assaulting the customers."

April 1

Flaky brother-in-law highly recommends stock. I buy it, just so that I will be able to blame him when it goes down. Stock doubles. Make \$4,000.00

April 15

Put off mailing my tax returns until the last minute in the hopes that the green-house effect will wreak havoc and create social chaos, making the filing of my return unnecessary. When that doesn't happen, I perform small

ritual good luck dance at post office before dropping tax return in mailbox. Observe others praying and making sign of cross before they drop their returns in mail slot.

May 14

Dow Jones shoots up 10% in value in only 1 day. Only 8 stocks on the entire exchange go down. My eight.

May 18

All of the paint suddenly and mysteriously falls off my van, as if molting it's skin for next season. When I contact the local GM dealer about this he says, "Yeah, they tried a new paint process on that model year and it didn't work out too well." I ask him, "This wasn't an experimental year for the steering or braking system as well, was it?"

May 22

Give up on my idea of beer-flavored breakfast cereal after failure to find financial backers for concept.

June 2

I finally find a locksmith to hire. On his first job he runs into difficulty with a lock change on houseboat in Sausalito. Later that night, the customer's ex-boyfriend walks in with old key and steals everything. Customer is a lawyer. Business insurance is a good thing to have.

I fall off the wagon.

June 18

Fire my van mechanic, Mr. Badwrench, after he mis-diagnoses a

problem with the van for seventh straight time, this time causing engine to burn out. Should have switched mechanics a while back, when he said to me, "You have a problem with your carburetor? That's the little do-hickey on top of the engine, but don't worry, I've never seen a problem on a car that couldn't be fixed with either duct tape or super glue."

June 20

First official day of summer. Time to remove squirrel nest from van air-conditioning unit.

July 3

Good news from my tax accountant. I can write off my stock losses over the course of several years.

I am expecting a call from Newsweek magazine for an interview request as the only person to lose massive amounts of money in the greatest bull market in history. I'm sure their first question will be: "How did you pick so many smelly losers out of hundreds and hundreds of great stocks Mr. Blass?"

July 24

Looking at my records, I notice that this will be the month that I will earn my 1 millionth dollar as a locksmith after 25 years on the road. Fifteen of these are in my wallet, the rest I have lost track of. I find myself humming:

Once I built a railroad

Now it's done

Buddy can you spare me a dime?

August 1

Turn fifty today. Told wife no party. I'll celebrate with a beer and a Tylenol.

August 14

Get a good offer from someone to buy one of my rental houses that has been sitting vacant for 4 months while on the market.

Termite report comes in. Inspector says, "It's a good thing you used thick paint on this place or it would have collapsed long ago." Deal falls through.

Dog throws up on my favorite pillow.

Sept. 1

Deranged street person breaks into this same vacant rental house and inexplicably tears down interior walls. He was apparently a student of the open-area school of architecture. He neatly stacks debris in garage and VACUUMS up after himself. Insurance claims adjuster laughs when I tell her the story, and says, "You're new at this insurance fraud thing, aren't you Mr. Blass?"

September 15

Yellow Pages representative comes over to discuss renewing my ad for next year. He informs me that there is good news. The ad rates are going up only 8 percent this year, instead of the usual 10. My response is: "Wow, only eight percent. That's only four times the cost of the living index this year. This is cause for celebration. Let's break out my finest bottle of prune juice and don't try and stop me.

It looks like my daughters will be attending "Claire's Jolly Follicle Beauty College and Cuticle Removal School"

instead of that silly old UCLA."

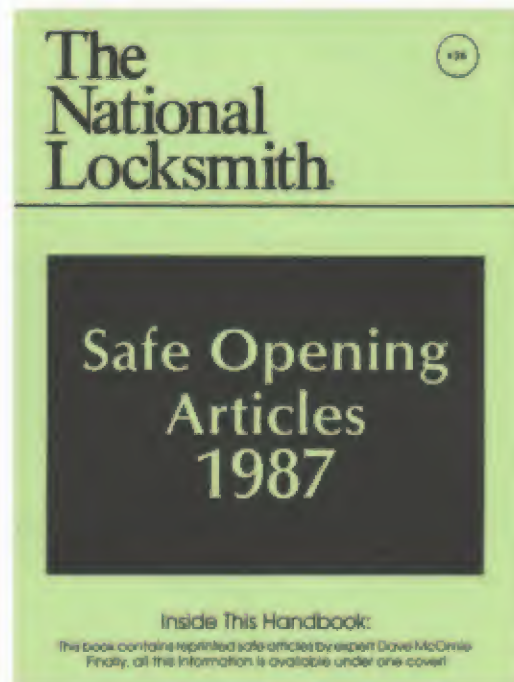
September 20

Nit-picky tenant in other rental unit I own calls up with twentieth complaint of year. He tells me that the clothes dryer makes a high-pitched whining sound when he turns it on. "Is the dryer on now," I ask. "No," he responds. "Oh, because I definitely hear a high-pitched whining sound on my end of the line," I inform him.

October 2

Light first fire of the season in wood burning stove, but smoke backs up into room indicating clogged

Safe Opening Articles 1987



Now under one cover—all the information safe opening articles by expert safeman, Dave McOmie.

[CLICK HERE TO LEARN MORE](#)

#SA - 1

chimney. Sadly, find out what happened to "Fur Ball" the cat, missing since beginning of summer.

October 12

Street person continues to vandalize house, so I find him and threaten to turn him into the worlds largest CornDog-on-a-stick if he keeps it up. "I'll show you deranged," I say with emphasis.

Vandalism stops and insurance pays \$3000.00 for interiors walls. Move forward two spaces.

November 1

Another one of my stocks not only goes down, but disappears

from the exchange altogether, never to be seen or heard from again. I asked my stockbroker, "Does this happen often?"

"Nope. First time," he says.

I have now accumulated enough tax write-offs for the year to counterbalance the income of Bill Gates and Donald Trump combined. I have decided to turn over all my financial affairs to my nine-year-old daughter, who had a far better year than me.

December 10

Receive letter from social security office informing me that as long as I

continue paying into the system at my current rate, then I can look forward to a monthly check of \$540.00 in the year 2014. That should almost be enough to take care of my Metamucil expenses in the year 2014. Now all I have to do is figure out how to pay for my housing, food, and medical needs.

December 24

Time to start thinking about Christmas shopping. Call Woolworth's to see how late they are opened.

December 25

Christmas Day. Santa brings wife gift certificate to Nordstrom's, daughter gets 15 beanie babies, and I get sweat socks for 48th straight year. I'm still waiting for that tricycle Santa promised me at the shopping mall when I was 4 years old.

December 31

New Years Eve. I used to do things on this night that could have gotten me arrested. Now a wild night for me consists of having a dinner that's higher than 5 grams in saturated fat. Then sitting around and watching my dog use every trick in the book to get me to scratch her tail. What a year.

You can e-mail Tony Blass at: tonyblass@juno.com



Modern Safe Opening



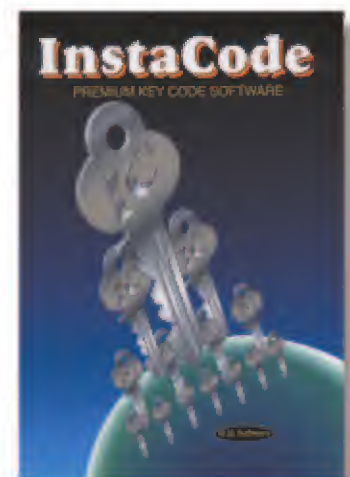
This book is a step-by-step How-To course in safe penetration. Opening safes is one of the most profitable aspects of the locksmithing business.

[CLICK HERE TO LEARN MORE](#)

#MSO - 1



InstaCode



[CLICK HERE TO LEARN MORE](#)

#IC - 2001



BUSINESS BRIEFS

Maziuk & Company Announces Web Site

Maziuk & Company launched MZKworld, Maziuk's all new web site for 1999, www.mzkworld.com. Browse separate areas for new items, commercial and residential door hardware, automotive and general locksmith supplies, keys, and overstock specials.

The electronic security section extensively covers burglar & fire alarm systems, electronic door hardware, access control, CCTV and many other accessories for the security professional.

For more information call: (315) 474-3959.

Dugmore & Duncan's Toll-Free Access

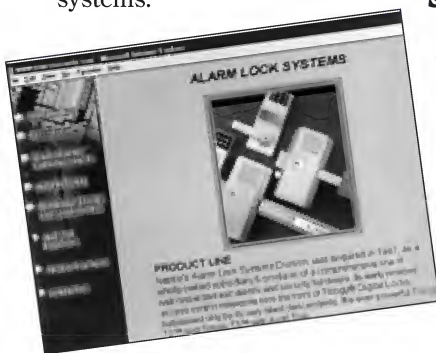
All four Dugmore & Duncan's nationwide distribution locations can now be reached through the same toll-free phone or fax line. The telephone number is 888-384-6673, and the fax line is 888-329-3846. The company's web address is www.dugmore.com. Dugmore & Duncan's headquarters is in Hingham, MA, with branch locations in Riverside, CA; Lombard, IL and Lakeland, FL. Dugmore & Duncan is the largest stocking distributor of SARGENT products.

Ace Lock Stocking Ilco Stand-Alone Lock

The new Ilco Unican 4000 Series programmable push-button lock is available at Ace Lock and Security Supply. Engineered and manufactured by Ilco Unican, the 4000 Series is battery operated and offers a 12-button keypad with millions of combinations completely programmable right at the lock, so no external computer or special wiring is required to power it. *Circle 281 on Rapid Reply.*

Alarm Lock's New & Improved Web Site

Alarm Lock has enhanced its web site <http://www.alarmlock.com> to include user information on the Excalibur access control systems. Designed to assist security professionals in selecting the best security equipment and systems for their customers, this site highlights all of Alarm Lock's digital locks and customized electronically controlled systems.



Medeco® Names Three Account Executives

Keith D. Johnson has been named account executive for Medeco high security locks responsible for the company's sales and marketing efforts in the Houston area.



Michael Katz has been named account executive for Medeco high security locks responsible for the company's sales and marketing efforts in the Los Angeles area.



Susan Lawless has been named account executive for Medeco high security locks responsible for the company's sales and marketing efforts in the central and north Florida area.



Access Hardware Supply

Access Hardware Supply has added the Detex ECL-600 to its extensive line of electrified locking hardware. The ECL-600, known as the "Bratch" is engineered to meet today's most stringent building and safety codes as a listed fire exit hardware device.

Access is also stocking the Simplex Unican's new 4000 series. The 4000 series is an all weather, heavy-duty, cylindrical electronic lockset that meets or exceeds ANSI/BHMA 156.2 grade 1 compliance.



For more information call: 800-348-2263 or fax 800-435-8233, or *circle 282 on Rapid Reply.*

Monaco Lock's Web-Site

You can learn more about Monaco Lock Company, Inc., the companies they represent and the products they wholesale by visiting their web-site at www.monacolock.com. You can also e-mail them to request a catalog or join their mailing list for their popular quarterly newsletter, Monaco Lock News.

Von Duprin 98/99 Series Exit Devices

The popular Von Duprin® 98/99 Series touch bar exit devices have passed a major milestone with the completion of tests to one million cycles for all mounting styles. The million-cycle test is four times the industry standard, far surpassing building code requirements.



The tested products met all requirements of BHMA/ANSI 156.3, Grade 1, and in addition the cycles were increased from 250,000 to 1,000,000. *Circle 283 on Rapid Reply.*

Mas-Hamilton Appoints Will Muetterties

Mas-Hamilton Group has announced the appointment of Will Muetterties as director of OEM sales. Mr. Muetterties previously served Mas-Hamilton as Marketing Manager for its safe locks. Since joining Mas-Hamilton, Mr. Muetterties has been instrumental in the

development and marketing of the company's new line of commercial electronic safe locks. His responsibilities will include implementing and supporting an OEM program nationwide. **INL**





THE CASH STATION

by Mark Gerhardt

LeFebure/ De La Rue Benchmark Series Model 50C

Manufacturer
LeFebure/De La Rue

Model #
Benchmark Series 50C
Teller Cash Dispatch (model TCD50CPX)

Handle Type
T-Handle

Handle Location
3-1/2" left of dial center, 1/2" down.

Handle Rotation
Clockwise

Dial Center to Handle Center
3-1/2"



Number of Door Locking Bolts
4

Door Locking Bolt Locations:
4" — 15" — 26" — 37" down from top of door

Door Thickness to Bolt Center
3"

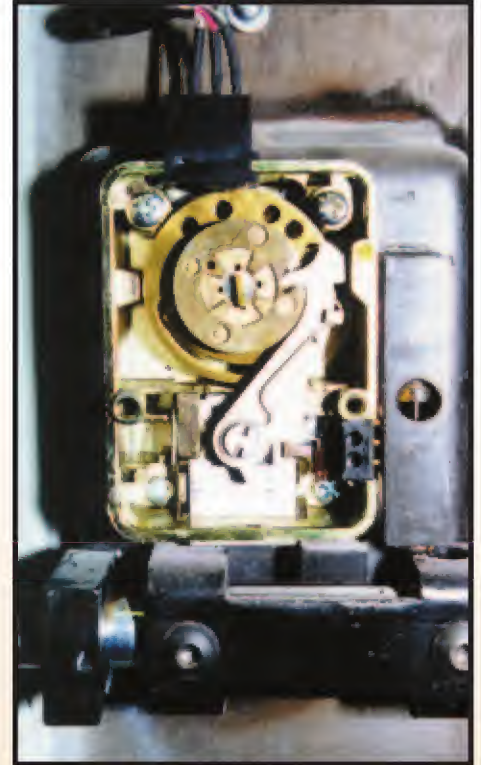
Door Thickness to Lock Case
2-1/4"

Door Thickness to Back of Lock
3-1/2"



April 1999 • 109

THE CASH STATION



LeFebure/De La Rue

Lock Type

LaGard 1854RL holdup lock with key locking dial.

Lock Description

Three wheel, key-changeable lock with a silent alarm feature. There is a micro-switch at the top of the lock.

Lock Case Thickness

1-1/8"

Number of Wheels

3

Driver Location

Rear

Lock Handling

Vertical Down (VD)

Drop-In Location

Rear

Forbidden Zone

0-20

Lock Opening Procedures

4xL to first number (add ten numbers for silent alarm), 3xR to second number, 2xL to third number, 1xR until dial stops.

Lock Notes

There is an additional gate on the first wheel. When you add ten numbers to the combination, the lever will still drop-in. This activates the micro-switch and alarm when the bolt is retracted.

Lock Drill Point

7/8" from dial center at 72. Align wheel gates at lever fence.

Lock Relock Trigger Type

Wire spring. Activates when combination lock cover is removed or punched.

Lock Relock Trigger Drill Point

7/8" right of dial center, 1-5/8" down. Hook with a wire and pull towards front of safe.

External Relock Device Type

Spring loaded plunger

External Relock Device Drill Point

1-5/8" left of dial center, 2-3/4" down.



Dealing with Unhappy Customers

by Ted Tate



Being in the lock business means you are often dealing with people who have serious concerns and want things made right with the wave of a magic wand. When that doesn't happen, some people can be a real handful. Understanding human behavior and remaining calm can go a long way in keeping customers.

In a customer service study done a few years ago, customers of several kinds of business firms were asked what upset them the most when they had a problem. Here's the top reasons given:

1. Apathy. Indifferent employees.
2. Rude and unempowered employees.
3. Unqualified or untrained employees.
4. Voice mail or being put on hold when they called to complain.
5. Promises not kept or not on time as agreed.
6. Making a big deal out of getting a credit or an exchange.

Apathy is the most frequently mentioned complaint. People who just don't care what happens to the customer.

Make customer service the most important part of your job. Don't treat customers, especially those with a problem, as a hindrance. See customer problems as an opportunity to make lifetime business friends and customers.

Practice the Art of Empathy

Did you ever take something back to a store and they immediately start to show you why it's not their fault or that you must have done something wrong? How does that make you feel? Angry, frustrated, never wanting to do business at that place again? Even if the store is 100% right and your are 100% wrong, they will have just lost a customer.

Empathy is just showing people you understand without admitting who is right or wrong. When a complaint or problem comes along, you don't have to say they are right and you are wrong. In fact they may be totally wrong. At this point it doesn't matter. Empathy allows you to convey you understand how they feel. It has a calming effect and allows people to discuss a heated matter with a more open mind.

Strategies for Keeping the Customer

- Let the customer blow off steam before proceeding.
- Listen carefully to what the customer is saying. If you are not sure, repeat back what you think was said.
- Propose a solution or if possible propose two solutions and allow the customer to pick one.
- Ask the customer if this solution is satisfactory.
- Act as soon as possible on whatever solution is agreed upon.

- Follow up a few weeks later with a letter or phone call to inquire if everything was handled to the customer's satisfaction.

"I can appreciate..." or "That's a shame that..." or "I hear you loud and clear" or "If I were you I might feel that way also." Not a word about who's right or wrong, just a nice way to let people know you understand. The minute people see you open your mind to hear them, theirs also begins to be receptive to what you have to say.

Avoid negative words and phrases, here's examples of positive ways to say the same thing:

- "That's not my job" becomes "The person who can help you with that is..."
- "I'm busy right now" becomes "I'll be with you in just a few moments."
- "No" becomes "Here's something I can do."
- "You want delivery by what?" becomes "I'll try my best, let me check our delivery schedule."
- "Give me a call" becomes "I will call you, when would be the best time to reach you?"
- "Calm down" becomes "I'm really sorry to hear about your problem."
- "I don't know" becomes "I'll find out what the situation is."

We are not in business to match wits with customers making clever

quips or snide remarks. We are not in business to belittle or demean a customer's problem. We are not in business to show customers how foolish they are or how wrong they are. By no means are we in business to trade insults with anyone.

Customers pay our salary and a lot more. These are not people we want to verbally beat into the ground; they are our business friends, and the reason we come to work every day. You are there to work out a fair resolution so everybody wins, at least a little. You want, if possible, the customer to be willing to return and be willing to tell their friends about what a nice place to do business you have.

Instead of rushing to fix something ask people, "What would you like me to do?" Don't be too surprised if, in many cases, they want less than you expect. If their request is unreasonable you can always decline and come back with a counter offer that is reasonable. I've had situations where I asked upset customers that question and they said they really didn't want anything, but they did want my company to know

about the problem so it wouldn't happen again.

The reason I suggest asking first is that if you come across as sincere and sympathetic to their plight, most people will be reasonable. It also will calm the tension as the customer sees you want to do the right thing. Oh, yes, it will also help keep the customers goodwill and make people want to come back. After all, who doesn't like to do business with caring people?

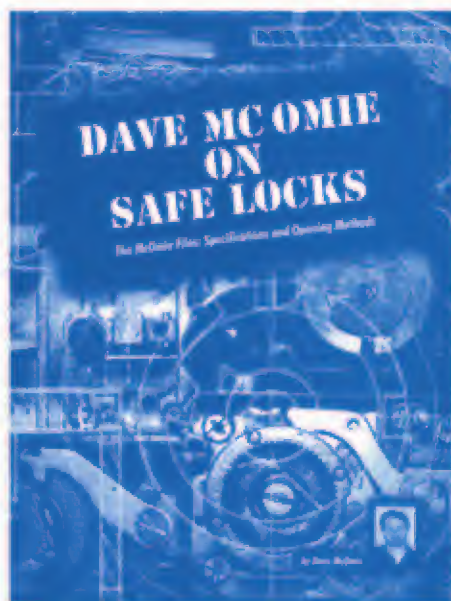
One of the finest books I've ever read on getting along with people is

Dale Carnegie's book, "How to Win Friends and Influence People." First published in 1963, it has been in print continuously ever since. Fifteen million copies have sold since and continue to sell 200,000 copies every year! I first read it in 1971 and to this day practice some of the ideas suggested by Mr. Carnegie.

It should be required reading for everyone in business, especially sales and customer service. (No, I receive nothing for endorsing this book).

Good Luck and good selling! **TNL**

Dave McOmie on Safe Locks



Almost 300 pages of information, photographs and illustrations give you every scrap of information about a huge variety of safe locks.

Locksmith Dispatcher 2000



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#DIS - 2000

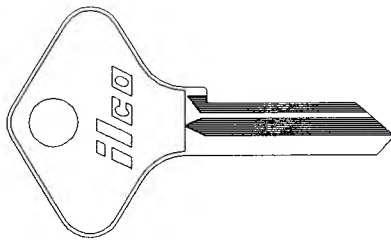
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#DMSL - 1

KEY CODES

Porsche FE1-FE2000

The HPC 1200CMB
code card for this code
series is between pages
126-129.



Manufacturer: Porsche
Code Series: FE1-FE2000
Key Blanks:
Ilco: DM2
Ilco EZ: DM2
Silca: DM9
Number of Cuts: 6
M.A.C.S.: 3
Key Gauged: Shoulder
Center of First Cut: .297
Cut to Cut Spacings: .098
Cut Depth Increments: .016

Spacings:
1 - .297
2 - .395
3 - .494
4 - .592
5 - .690
6 - .789
Depths:
1 = .261
2 = .246
3 = .230
4 = .214
5 = .198
6 = .183
7 = .167

HPC 1200CMB
Code Card: N/A
Cutter: CW1011
Jaw: A
Gauge From: Shoulder
HPC Punch:
PCH Card: N/A
Punch: N/A
Jaw: N/A
HPC CodeMax
DSD #: 811
Framon:
Cuts start at: .300
Spacing: .098
Block #: 3
Depth Increments: .015

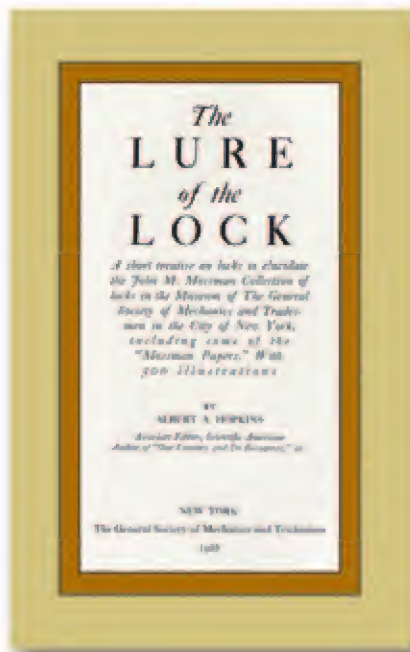
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FE3	313666	FE37	353146	FE71	142364	FE105	312564	FE139	134646	FE173	143631
FE4	134256	FE38	114663	FE72	141436	FE106	135642	FE140	132256	FE174	135346
FE5	531456	FE39	145446	FE73	214465	FE107	541136	FE141	341336	FE175	541236
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FE7	533146	FE41	131136	FE75	124436	FE109	142365	FE143	141336	FE177	413365
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FE12	412356	FE46	113146	FE80	314366	FE114	134632	FE148	125636	FE182	314346
FE13	135256	FE47	142447	FE81	125632	FE115	211356	FE149	413436	FE183	134634
FE14	533631	FE48	142546	FE82	412464	FE116	214644	FE150	125466	FE184	312136
FE15	314641	FE49	124655	FE83	133634	FE117	146466	FE151	554136	FE185	136644
FE16	114446	FE50	341436	FE84	312364	FE118	314364	FE152	141456	FE186	234146
FE17	214466	FE51	213656	FE85	133644	FE119	125654	FE153	211336	FE187	143652
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FE19	341246	FE53	124236	FE87	143363	FE121	213136	FE155	214365	FE189	125644
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FE34	125556	FE68	243146	FE102	213364	FE136	413536	FE170	144645	FE204	114644

Porsche FE1-FE2000

FE205	541464	FE269	241366	FE333	113634	FE397	142436	FE461	412136	FE525	311364
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Porsche FE1-FE2000

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FE617	343146	FE646	125656	FE675	242146	FE704	314644	FE733	136641	FE762	231336



The Lure of the Lock

This hardcover book, compiled in 1928, features dozens and dozens of beautiful photographs on ancient through modern locks.

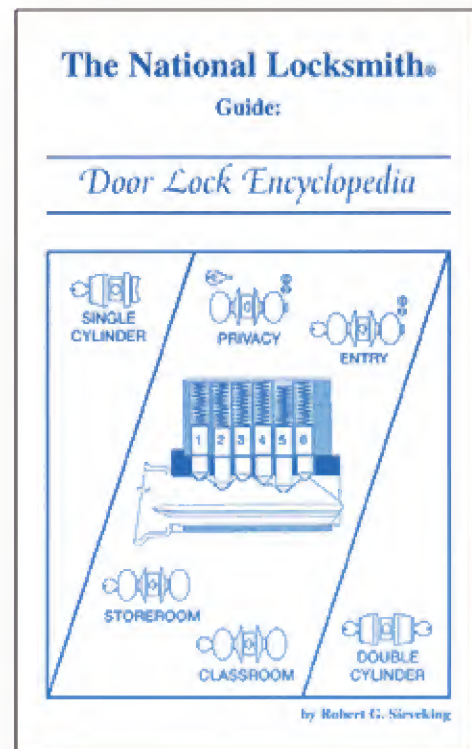
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#LURE

Porsche FE1-FE2000

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FE785	125363	FE849	123645	FE913	546341
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FE787	136343	FE851	122563	FE915	356341
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FE824	136522	FE888	145563	FE952	521365
FE825	444146	FE889	536412	FE953	144463
FE826	143632	FE890	146324	FE954	213563

Door Lock Encyclopedia



The ability to remove a lock from a door, disassemble the mechanism, and remove the lock cylinder for service is not always a simple straightforward task.

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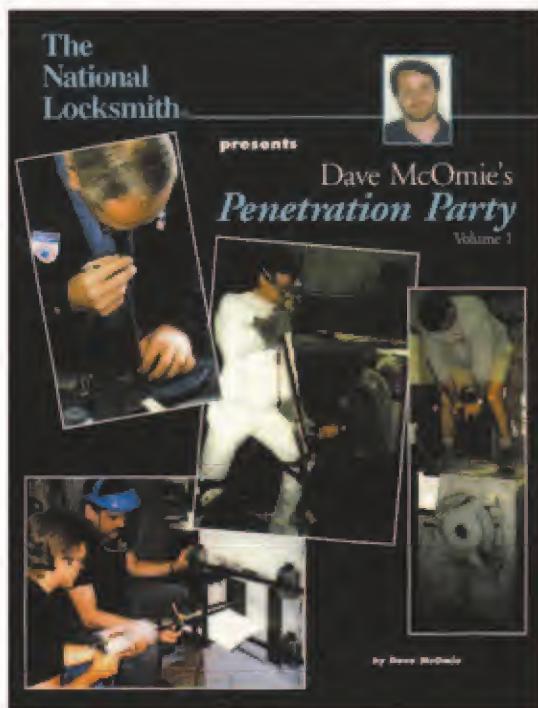


#DLE

Porsche FE1-FE2000

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Penetration Party



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#PP - 1

Porsche FE1-FE2000

FE1131	431446	FE1195	336412	FE1259	213632
FE1132	136536	FE1196	421366	FE1260	123663
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By Andrew G. Phils, 1995

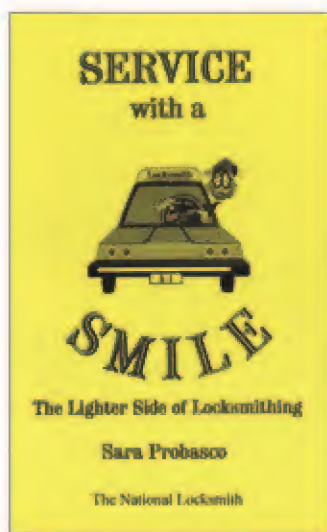
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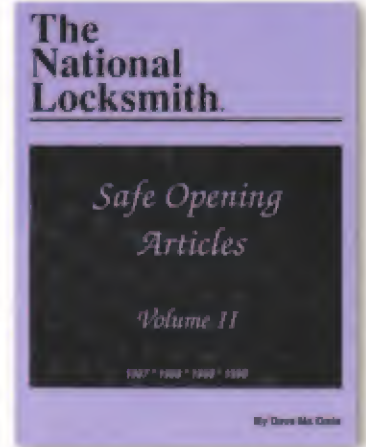
Porsche FE1-FE2000

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FE1335136322	FE1399 456341	FE1463 356421	FE1527 254741
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FE1598	146524	FE1662	256744	FE1726	244474	FE1790	243474
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Safe Opening Articles



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#SA - 2

Porsche FE1-FE2000

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FE1863	214764	FE1892	255753	FE1921	132366	FE1950	246743	FE1979	246676		

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#TIPS - 2

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#TNL - CD1

ABH PUSH/PULL HANDLES



by
Sal Dulcamaro,
CML

When many of us think of ADA, we envision lever handles replacing knobs. Some months back, when visiting someone at a hospital, I noticed mostly push/pull handles rather than lever handles. Not having done much lock work in hospital institutional environments (hospitals, nursing homes, etc.) I hadn't run into much in the way of push/pull handles on commercial hardware. When I did get a chance to examine this style of hardware, I found it to be very interesting.

Architectural Builders Hardware Mfg., Inc. (ABH) is a leading manufacturer of push/pull handles for use with mortise locksets. *Photograph 1*, shows a mounted ABH pull handle used in conjunction with an ABH brand mortise lockset, although ABH makes push/pull handles and mounting hardware that will work with most common brands of commercial mortise locksets.

CONVERTING A MORTISE LOCKSET TO PUSH/PULL HANDLES

Although I will be demonstrating the process of installation on an ABH brand mortise lockset, the process will be very similar for adapting a wide variety of other brand mortise locksets (from knob or lever handle) to push/pull handles.

Photograph 2, shows an enlarged cross bore hole in the door surrounding the square shaped opening for the actuating spindle of the handle. Part of the metal of the mortise lockset casing can be viewed in the nearly 2-inch hole. Holes directly above and below the spindle opening allow through bolts to attach the outer and inner mounting plates for the push/pull handles. The mounting plates are configured in such a way to allow vertical or horizontal mounting of the push/pull handles. While horizontal mounting is virtually always possible, vertical mounting can sometimes be limited by the existence of a mortise cylinder on the outside door surface or a thumb turn on the inside surface of the door.



*A mounted
ABH pull
handle.*



*An enlarged cross
bore hole
surrounding the
square shaped
opening for the
actuating spindle.*

GM Steering Column Course

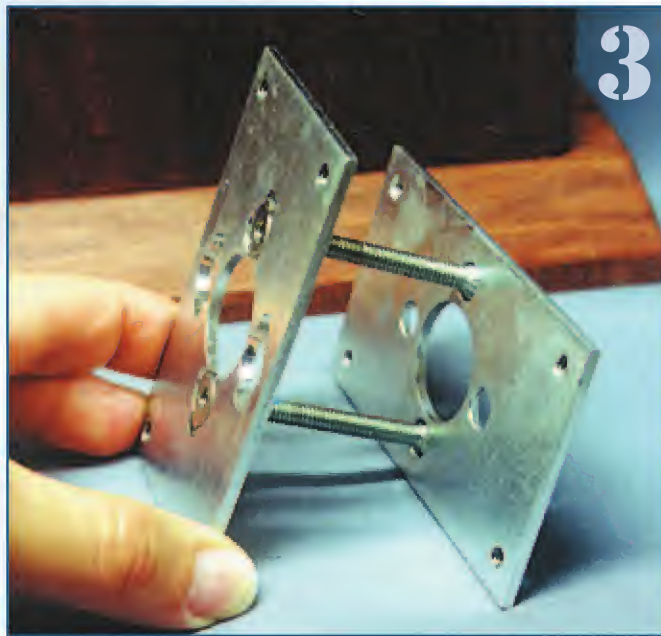


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#GM - 2



3

The outer mounting plate is vertical, while the inner mounting plate is horizontal.

Both mounting plates configured as horizontal.

Held in my hand, in photograph 3, the outer mounting plate is positioned vertical, while the inner mounting plate is positioned horizontal. That is just one of the possible mounting plate configurations. Outside and inside could have been reversed, with the outside horizontal and the inside vertical. Photograph 4, shows both mounting plates configured as horizontal, while photograph 5, has both mounting plates vertical.

This is a unique feature of ABH push/pull handles. They are the only manufacturer of push/pull handles designs that allow multiple or interchangeable handing configurations in one design that I am aware of.

In photograph 6, the mounting plates



4



5

Both mounting plates are vertical.

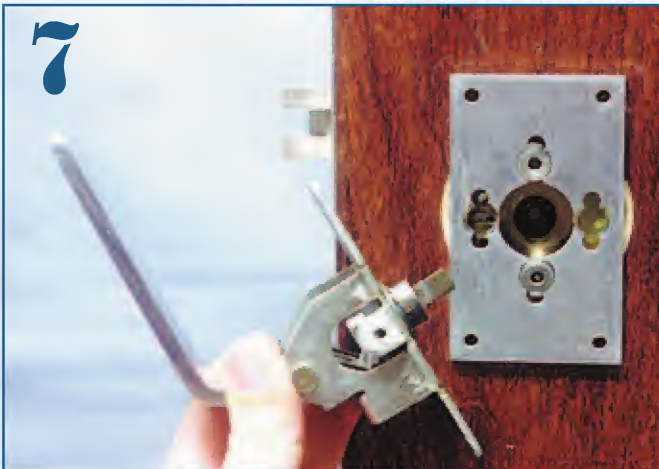
The mounting plates have been attached with through bolts.

6



The outside mounting plate and pull handle are shown.

7



have been attached with the through bolts going through the mortise lockset. The outside plate is mounted vertical. The outside pull handle is shown in *photograph 7*. The square spindle will fit into the opening where there might otherwise be a knob or lever handle. *Photograph 8*, shows the actuating piece that converts the pull motion of the handle into rotation, which will rotate the spindle and retract the latch on the mortise lockset. The pull handle is attached to the mounting plate with four machine screws seen in *photograph 9*.

In *photograph 10*, the mounting plate is mounted horizontal with the inside push handle (in my hand) positioned the same way. You can see that the inside thumb turn is less than an inch above the top of the mounting plate. Vertical mounting

8



The actuating piece that converts the pull motion of the handle into rotation.

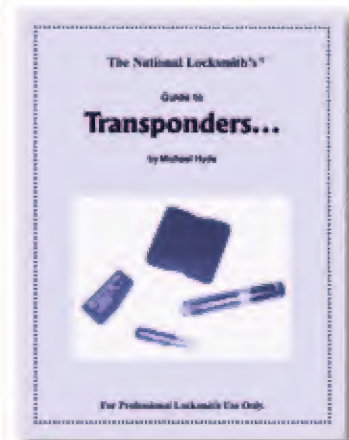
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#IC - 2001

Transponders



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#TS - 2001

The pull handle is attached to the mounting plate with four machine screws.



The mounting plate is horizontal with the inside push handle positioned the same.



The inside push handle is attached with four machine screws.

The cover plate conceals the mounting screws and other internal parts.

is not possible as long as the thumb-turn is in the way. If there were no obstructions, the mounting plate could have been attached in a vertical position and likewise the push handle. After the inside push handle is attached with four machine screws, in *photograph 11*, the cover is ready to be attached.

The open slot in the middle of the cover will fit over the end of the push handle, as in *photograph 12*, and is positioned to cover the mounting screws and other internal parts of the handle mechanism. When seated properly in *photograph 13*, the cover is fastened in place with two screws (one each on the top and bottom). With the cover in place on the outside, in *photograph 14*, the second of two screws (one on each side) is tightened to hold that cover securely.

The inside (push) and outside (pull) handles have been installed completely in *photograph 15*. The inside is horizontal while the outside is vertical. The outside pull handle is vertical up and could have been installed vertical down, if it hadn't been an engraved handle. Although it would function with the handle pointing downward, the letters in the word "PULL" would be upside down. If engraved handles are required, the direction and positioning of the handles must be known in order that the engraved words are right side up and readable.

The ABH mortise lockset with push/pull handles is considered the 6600 series. It is available in most common lock functions and in BHMA finishes. To convert an existing mortise lockset to push/pull handles, you would need the 6700 series push/pull trim for mortise locks. Different models are available for different brand mortise locksets. The various models are as follows:

- Model #6710 - Arrow, Best, Falcon, Marks
- Model #6720 - Schlage
- Model #6730 - Yale
- Model #6740 - Corbin/Russwin
- Model #6750 - Sargent
- Model #6760 - PDQ

Like the ABH version, push/pull handles can be mounted vertical up or down and horizontal. When mortise cylinders or thumb-turns are used on either side, that side can only be horizontal mount or vertical down (if sufficient space away from the mounting plate cover). Likewise, the use of engraved handles requires the positioning of the handles be known.

THE 6000 SERIES PUSH/PULL LATCH

ABH also makes a push/pull latching device. Having a spring latch to catch the strike plate, it opens on either side with push/pull handles instead of standard knob or lever handles. It can be installed with a modified door prep of the standard 2-1/8 inch cross bore holes. It is available in BHMA finishes and with



2-3/4 inch, 5 inch or 7 inch backset latches.

Photograph 16, shows the paper template for marking the four mounting holes. They should be 5/16-inches in diameter and positioned around the existing 2-1/8 inch diameter cross bore hole. Set for 2-3/4 inch backset, it is also labeled for 5-inch and 7-inch backset latches. With the four mounting holes drilled, in *photograph 17*, the latch is installed prior to attaching the handles. Both handles are shown in *photograph 18*. The spindle is part of one handle unit, and the other handle is capable of actuating the latch when the two handle units are assembled together as in *photograph 19*.

There are no separate mounting plates used with the 6000 series handles. Four bolts go through the mounting holes of one handle unit, pass through the door, and come



The cover is fastened in place with two screws.



The cover in place on the outside.



The paper template for marking the four mounting holes.



The completed installation of the push/pull handles.

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#IC - 2001





The four mounting holes drilled around the 2-1/8" cross bore.

through the mounting holes of the handle unit on the opposite side of the door. Four nuts with included lock washers assemble onto the four bolts, and they are tightened to hold the handles securely to the door. The cover, shown in *photograph 20*, attaches to the handle exactly the same as on the mortise lock units. *Photograph 21*, shows the connected handles turned sideways, or horizontal. The paper template only has the

mounting hole locations positioned for vertical handle installation. If you want to install the push/pull handles in a horizontal position, you will need to transpose the dimensions found on the paper template. Unlike the mortise lock units, you cannot have one side vertical and the other side horizontal. Both sides will be either vertical or horizontal.

Both 6000 series handles.



The two handle units are assembled together.



The cover attaches to the handle exactly the same as on the mortise lock units.

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#ASA - 2000



The connected handles can be mounted either horizontally or vertically.

21



Photograph 22, shows the handles bolted to the door without covers installed. If it had been installed in the horizontal position, there would only be one possible configuration. With vertical installation, both handles can point down, as in photograph 22. The other possible variations include the inside handle up and the outside handle down, shown in photograph 23. The reverse is also possible with inside down and outside up. Photograph 24, shows the last possibility, with both handles up. For engraved handles, you should know the intended configuration when ordering.

Handles bolted to the door without covers installed.

22



The installation is complete in photograph 25, with the covers attached. The installation is rather quick and straight forward. There are times when push/pull handles are much better suited for a customer's needs as an ADA alternative to lever handles. Not just for handicapped people, a push handle can be much more easily operated when people have their

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#PI

23



Here the inside handle up and the outside handle down.

hands full. Instead of making an awkward movement that would cause you to drop what you are carrying, you can just lean into a push handle to open a door without having to use your hands.

If you would like additional information about these or any other products, contact: Architectural Builders Hardware Mfg., Inc. (ABH), 500 Crossen Ave., Elk Grove Village, IL 60007. Phone: (847) 437-9901. FAX: (Toll Free) 800/9FAXABH (800/932-9224). E-mail: abhinfo@abhmfg.com. Internet address: www.abhmfg.com. Or circle number 291 on Rapid Reply. **TNL**



The last handle mounting possibility is with both handles up.



The installation is complete.

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- Volume 2 - Modern Safes
- Volume 3 - Antique Safes
- Volume 4 - Antique Safes
- Volume 5 - Very Recent Safes

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#SO - 1, SO - 2, SO - 3, SO - 4, SO - 5

Adams Rite

Swing Bolt Repair



by
Bob Sieveking

Here's a lock malfunction that should ring a few bells with some working locksmiths. I'm sure that if you've been in the locksmith trade for any length of time you've seen the Adams Rite MS 1850S deadlock on aluminum frame store doors. (See *illustration A.*) It is probably one of the most common locks to be found on aluminum frame doors in existence.

Early locks of this type were available only under the Adams Rite name. Over the past few years a number of other manufacturers have copied the design, with varying degrees of mechanical success. There is very little that can go wrong with this design.

Photograph 1, shows the mechanics of this lock. The laminated swing bolt is controlled by the swing bolt control arm. The deadlocking roller acts to fix the swing bolt control arm in the extended or retracted position. When a mortise cylinder is installed in the lock, the cylinder drive cam is rotated and acts to depress the deadlock roller against the action of the deadlock roller springs. With the deadlocking roller depressed, the drive cam acts on one or the other of the drive pins to move the swing bolt control arm.

As the swing bolt control arm moves it causes the swing bolt to extend and swing up. As the drive cam moves away from the deadlocking roller, the deadlock roller is moved up, caused by the tension of the deadlock roller springs. The deadlock roller springs up to deadlock the swing bolt in the extended position.

140 • The National Locksmith

Illustration B, traces the action of the deadlocking roller as the key is rotated clockwise to extend the bolt.

There are two lock malfunctions that I have encountered with this lock that can be repaired by you in the field. The first problem is the loss of one or both of the deadlocking roller springs. The springs can rust or break and become lost. This prevents the swing bolt from locking in the extended position. The easy repair for this problem is to replace the springs.

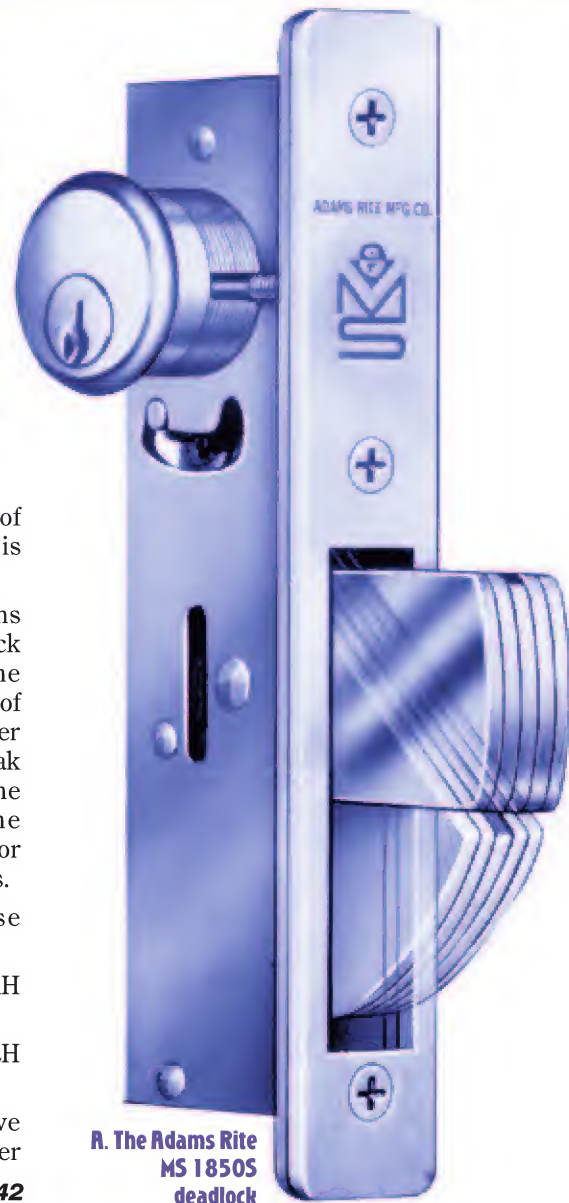
The part numbers for these springs are:

AR-HS64-02 Spring, deadlatch RH (right hand) pack of 10.

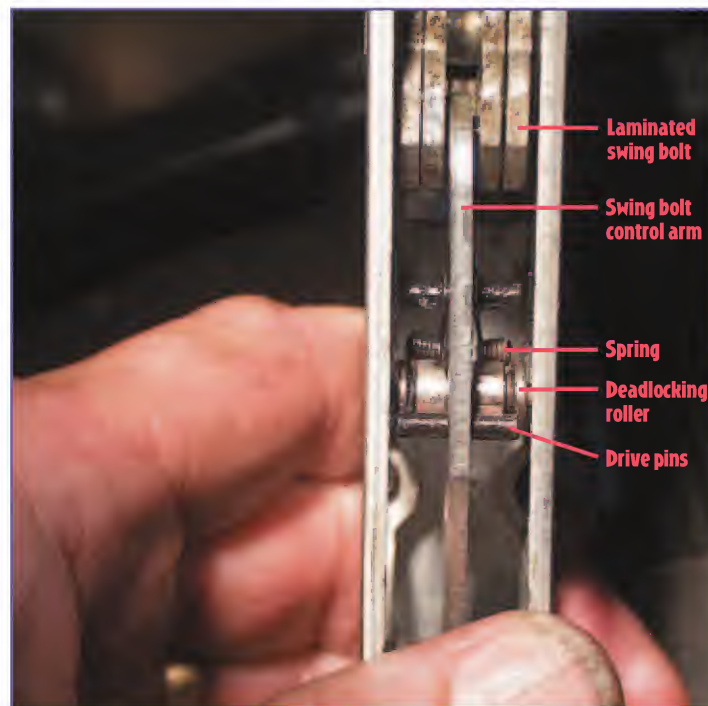
AR-HS64-03 Spring, deadlatch LH (left hand) pack of 10.

The second problem that I have encountered is the deadlocking roller

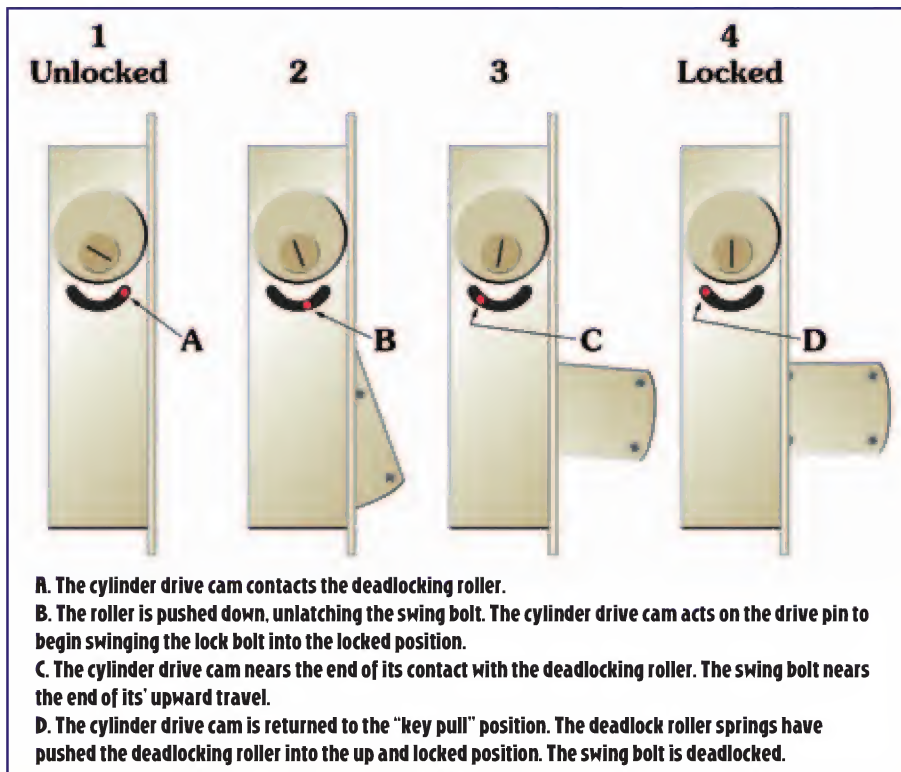
Continued on page 142



A. The Adams Rite MS 1850S deadlock



1. The mechanics of an Adams Rite MS 1850S deadlock.



B. The action of the deadlocking roller as the key is rotated.

3. The deadlocking roller breaks in the center.



breaks in the center. (See photograph 3.) When this problem occurs, the lock cylinder cam will not depress both sides of the roller to allow the swing bolt to be moved. Every time I've seen this problem, it has been at about 10:00 o'clock at night when the stores that stay open until nine are trying to lock up and go home.

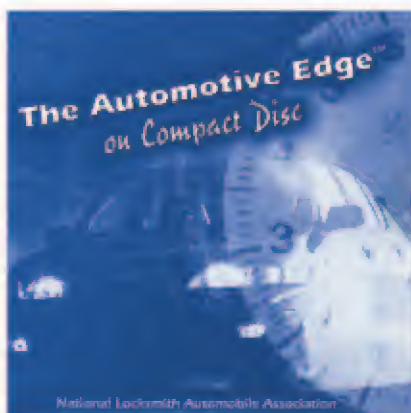
The easiest and most common fix would be to replace the lock with a new one and be on your way. But, what if you don't have another Adams Rite lock of the correct backset or style to replace it? Travel time, and miles, multiplied by the late hour, begs a repair in stead of a replacement.

Here's the fix. Mount the lock in a bench vise and using a small cold chisel, unlatch the lock face from the lock chassis side plates. (See photograph 4.) It is only necessary to free the top and second pair of rivet towers. There are three pairs of rivet towers over the length of the lock face. Leave the bottom pair in tact.

With the lock face free, pry or punch one side of the lock chassis off the top swing bolt control arm pivot pin. You can not drive the pin through the pivot because it is a shouldered pin. Easy does it, we're going to put this lock back together.

With the control arm free, slide it off the pivot pin and swing it away from the lock. You should now be able to remove the deadlocking roller for repair.

Photograph 5, shows the inside of the deadlocking roller. The roller is



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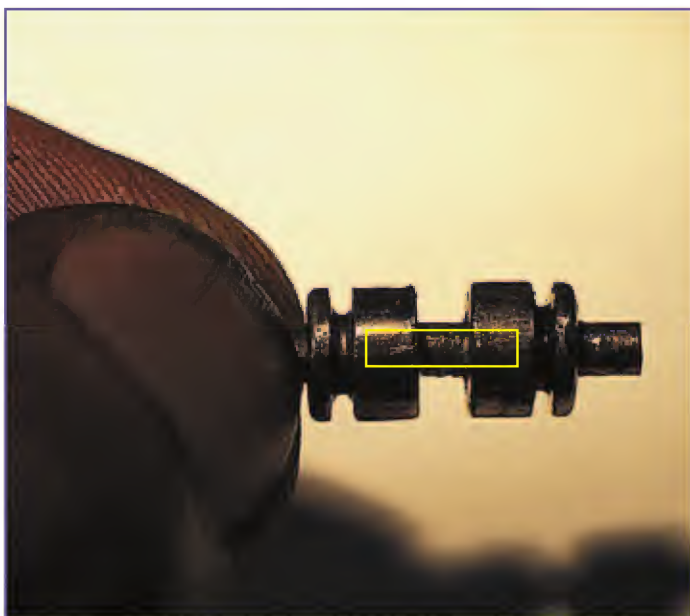
#AE - CD



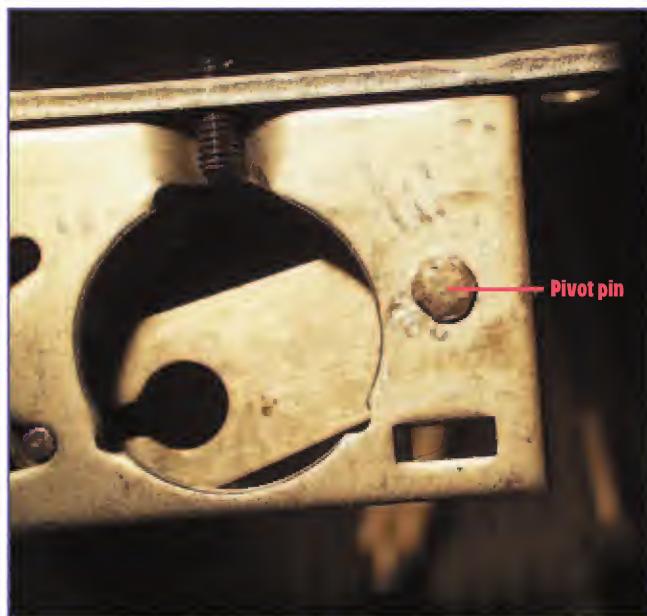
4. Unlatch the lock face from the lock chassis side plates.



5. Bubble inside the deadlocking roller.



6. The outline indicates the length of the roll pin.



7. Drive the chassis side plate over the pivot pin.

made of white metal or zinc die cast material. Because of the die design, a bubble formed inside the part when it was made. That bubble caused the part to fail. If we were to look at the other half of the roller, we would see the other half of the bubble.

Carefully clamp the roller half in your vise and drill a 5/64" hole into the center of the roller axle with a new sharp drill bit. This is not as difficult as it sounds because the bubble will act as your center punch. Drill only about 1/4" deep. In *photograph 6*, notice that the hole drilled in the center of the roller (indicated by the outline) does not quite reach the level of the deadlock roller spring seats.

Next drill through the center of the other half of the roller as well. Cut a

5/64" roll pin to the length indicated in *photograph 6*, using a Dremel abrasive cut-off wheel.

Insert the roll pin into one of the roller halves and then use a vise to seat the pin. Place this deadlocking roller half into the swing bolt control arm and then place the second half of the deadlocking roller onto the roll pin. Again, use your bench vise to "press" the halves together. Don't squeeze it too tight, the roller should move freely in the control arm.

If the deadlock roller is repaired as a complete unit before installation, it will require that the two drive pins in the control arm be removed to install it.

Reassemble the control arm bushing over the pivot pin and drive

the chassis side plate over the pivot pin. Re-rivet the pivot pin as you see in *photograph 7*. Replace and rivet the lock face back into position. Install the left and right roller springs to complete the repair. Lubricate and check the lock for proper operation before installing it back into the door. Use a thumb turn or lock cylinder.

If you were careful, you're done.

I have used this technique at least a dozen times. All those locks are still in service, so if it works for me it will work for you.

Good luck.

For Adams Rite product info call 800-872-3267 or circle #285.

TRL

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TEST DRIVE!

I think one of the greatest inventions ever, was the remote overhead garage door opener. I can still remember (not so long ago) when I didn't have such a device on my garage door and how much I hated to get out of my car to lift open the door every time I wanted access. I especially despised it during the winter season. Today I wouldn't even dream of being without such a wonderful device.

PRODUCT DESCRIPTION:

The Handy-Touch is an innovative garage door transmitter/receiver, which installs easily into a cigarette lighter socket, making for convenient access. It draws power directly from the cigarette lighter socket in the ashtray, so it requires no batteries to operate. Handy-Touch has an effective range of up to 150 feet and is designed to work in conjunction with other transmitter/receivers. There is no need to replace the existing receiver. The Handy-Touch receiver unit installs easily on all garage door openers and connects directly to any existing opener hardware.

The unit operating at 910 MHz and the Handy-Touch is the first micro-remote transmitter to use market tested code-rolling technology, making it virtually impossible for high-tech burglars to break the opener's code. Handy-Touch is also available for most American, Japanese, and European cars.

INSTALLATION:

To install, first mount the Handy-Touch receiver to the interior garage wall, rafters, or door operator using the screws supplied or tie wraps. It is not recommended that the receiver be mounted within two inches of a metal surface.

HANDY-TOUCH[™] By Creative Commands Corporation

Attach the two white wires on the receiver to any point along the line to the operator switch wires using the wire splices supplied. You can also connect the white wires to the relay terminals on the door operator.

Connect the wall-mounted transformer to the receiver using the enclosed wire nuts.

You may also draw power directly from the relay terminals on the operator if desired. If direct relay connection is desired, voltage output must be tested at the relay with a multimeter because some relays will not supply sufficient power. 24 volts is required for operation, anything less and a transformer must then be used.

PROGRAMMING THE RECEIVER:

The programming button can be accessed through the face of the receiver. Using a toothpick, depress the programming button for approximately 10 seconds until the red LED light on the unit goes out.

Again using a toothpick, momentarily depress the programming button and release the button when the red LED lights.

Within the next 30 seconds, momentarily depress the transmitter button. Now the red LED will go out.

Depress the transmitter button a second time. The red LED will flash. When the flashing red LED ends, the transmitter code has been learned.

WARRANTY:

The Creative Commands Corp. Product is warranted to the end user to be free of defects in material or workmanship under normal use for a period of 12 months from the date of purchase.



PRICE:

The Handy-Touch transmitter, receiver and installation instructions retails for \$80.00. A 24-volt transformer is \$9.00 and extra transmitters are \$45.00 ea.

CONCLUSION:

I'm very impressed with the Handy-Touch. It's an item that is easy to install (you don't need to be an electrical engineer), can be carried in your pocket or easily transported between vehicles, requires no batteries and works like it should. In fact, I'm about to order an additional transmitter for my other vehicle. I can assure you that once I installed the Handy-Touch my old black box transmitter has been retired for good.

For more information on the Handy-Touch remote control transmitter contact:

Creative Commands Corporation
3121 Fujita Street
Torrance, CA 90505
Phone: (310) 530-1420
Fax: (310) 530-9219

Web: <http://www.handytouch.com>.
Or circle #301 on Rapid Reply Card.



IN SUMMARY:

DESCRIPTION: The Handy-Touch is an innovative garage door transmitter/receiver.

COMMENTS: Once I installed the Handy-Touch my old black box transmitter has been retired for good.

PRICE: Handy-Touch \$80.00. Transformer \$9.00. Extra transmitters \$45.00.

TEST DRIVE RESULTS: I'm impressed with the Handy-Touch. It's an item that is easy to install, requires no batteries and works.